# The Mining Journal

# RAILWAY AND COMMERCIAL GAZETTE-

No. 339. -- Vol. XII.7

LONDON: SATURDAY, FEBRUARY 19, 1842.

PRICE 6D.

EAD MINE ON SALE.—TO BE SOLD, BY AUCTION, at the White Horse Hotel, Holywell, on Wednesday, the 2d day of March, at Four orlook in the attenuous public to state conditions of sale as shall be a streamen, subject to state conditions of sale as shall be a care upon the action of the sale and well-known lead mine, called the LYELL MINE, situated near to the town of Holywell, and comparising imost unlimited extent of mineral land. The mine has been worked by means a still level, which has been driven nearly a mile in longth, and drains to the th of seventy yards. There is a steam-regime on the mine, used for pumping, and is in excellent repair. Very few trials have been made below, and little doubt exists in the minds of the most experienced miners of there are desired of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of there are doubt exists in the minds of the most experienced miners of the many respectively. The mind is a continuous of the mineral many and the experienced in the mineral many and the

PROPERTIES OF HOT AND COLD-BLAST CAST-IRON.

(Concluded from last week.)

The conclusion at which Mr. Hodgkinson arrives, and to which Mr. Fairn may be held to assent, is stated in that grathenar's report as follow.

Residents with No. 1 leas of which we have a week.

At the Clyde Irea Works, near Glasgow, in 1929, when the was affected by the cald air-binet, there were renounced—			
For smelling, three tons of othe, equal to	-	162	
	-	_	-
Total coal per ton of iron	-	10 for	**
For smalling, I lon 18 cwts. of cobs, equal to			:
Total coal per ton of iron		18	
For smelting For heating the nir. For the blowing-engine	:	***	:
Total coal per ton of tree	-	19	-

the smaller amount of fuel sees or, for there is little executants

other, for there is little room unction of fact buyond what precises an actual office in the reducing precises. It also accounts for the camiller quantity of fine some necessary for separating the clay, for, the mirer intense the best, lineatone necessary for separating the clay, for, the mirer intense the best, the smaller in the quantity of fine required for the fascion of clay. And hence also the greater rapidity of the process—and, consequently, the additional also the greater rapidity of the process—and, consequently, the additional quantity of cast-free obtained from a forware is a given time.

This is the explanation esquented by Dr. Thomson in his report to the British Association on the composition of cast-free, and there cannot be a doubt-but that it is the norther dues. It may be of-jected, by those who are aware of the fact, that, by the cold-biast process, the furnaces work better aware of the fact, that, by the cold-biast process, the forcaces work better aware of the fact, that, by the cold-biast process, the forcaces work better aware of the fact, that, by the cold-biast process, the forcaces work better aware of the fact, that, by the cold-biast process, and require both less fuel and lines. The same holds true, to a small content, in the both biase process, and lines. The same holds true, to a small content, in the both biase process, and lines. The apparent we wanted a feature of the air, but to its hygrometrical state, no reference in the temperature of the air, but to its hygrometrical state, no reference in the temperature of the air, but to its hygrometrical state, no reference in the temperature of the air, but to its hygrometrical state, no reference in the continue than the cald qie of winter; were both equally more contains more moisture than the cald qie of winter; were both equally more contained more moisture than the cald qie of winter; and the cold-biast day, the furnaces would undoubtedly noch better in anneaer by the cold-biast dynamic than the furnace was made the cablect of d

# LAW INTELLIGENCE.

[It is understood that the great cause relative to minerals under the soil, as pending between Lord Hatherton and the Merquis of Angiessy, will one on for total at the next Worcester assizes. Sir Thomas Wildo's symbols related for Lord Hatherton.]

LAW OF PARTNERSHIP—IMPORTANT CASE.

RIGHTAND, ANDREWS.—This cause cause on upon plea to the pinintiff's bill.—Mr. Chaumers of the Agricultural and float by Charles Pelson Kirkmon, against the incombers of the Agricultural and General Life Assurance. Kirkmon, against the incombers of the Agricultural and General Life Assurance. Company, proysing for a declaration of the court, that the defendant having these removed from the office of resident manager of the company, was, under these of partnership of the encaphity, of the 17th of February, 1940, relies of partnership of the encaphity, of the 17th of February, 1940, relited to receive 35001, being seven years of his annoal unlary of their, a year; the pinintiff of goods thereunder, was presented by the fraud and sevin of the the pinintiff, before June, 1921, was a tender, was indebted to, befored, that the pinintiff, before June, 1921, was a tender, was indebted to, a greature in 1901, and upwards; had committed nate of hundragety; that a commission had been issued, on which he was declared a hankrupt; about the plaintiff before the triber, indebted to cortificate; and that afterwards he carried on business, was a trader, indebted in over floor residence, endemned a bankrupt; that that commission was issued, on which he was declared a bankrupt; that that commission was issued, on which he was declared a bankrupt; that that commission had every floor resident the the dividend the plaintiff had not obtained his certificate, and that 181, in the 11-dividend had not been paid; and the plaintiffs submitted that the designess under the last economission was respected in the dividend that on the plaintiff had not obtained his certificate, and that 181, in the 11-dividend had not been paid; and the plaintiffs submitted that the designess under the last economism were necessary parties.

Mr. Tunners had Mr. Taylon for the plan, argued that the defendants

ad not been paid; and the plaintiffs submitted that the needgews under the examples on were necessary parties.

Mr. Tunker had Mr. Tavion for the pien, argued that the defendant was entitled to the pentection of leaving the hasigness, under the second comes and the pentection of leaving the hasigness, under the second comes that the pentection of leaving the hasigness, under the second control of the second taken in the cause, and might file a fresh bill.

Lord Lavinain said that there was a enfected allegation of information to before; it had been or determined. Unless he found a distinct authority and to the first that there was a unfected to the submitted authority in the should consider the averagest of the bunkropteles sufficient, should overfule the pica. He would mention it in a day or two.

# THE NORTHERN HAILWAYS' DISPUTE.

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THE NORTH CLARENCE HAILWAY COMPANY OF THE GREAT NORTH OF ENGLAND, CLARENCE HAILWAY COMPANY OF THE OLD THE VICE. CHARCALLOR greated on injentions in this cause on the PANY.—The VICE. CHARCALLOR greated on injentions in this cause on the PANY.—The VICE. CHARCALLOR greated on injentions in this cause on the PANY.—The VICE. CHARCALLOR greated on injentions in this cause on the PANY.—The VICE. CHARCALLOR greated on the defendants from encouraged their realities of a section of trepness eigning the defendants, for the purpose of accertaining an action of trepness eigning the defendants, for the purpose of accertaining an action of trepness eigning the defendant, for the purpose of accertaining an action of trepness eigning the plaintiffs' Railway. This action was accertaining remmensed on this dot fleptomber, to the Casert of Queen's Hencel, but has not pot been brought to a trial, owing to the pressure of business in that and pot been brought to a trial, owing to the pressure of business in that and pot been brought to a trial, owing to the pressure of business in that caset, not interest the pressure of business in that and pot been brought to their railway within five years from the passing of the Act (of of July, 1887). The dispute between the parties in the interesting that it outbacked them in cross the pinintiffs' railway effections incitating that it outbacked them in cross the pinintiffs' railway effects of a mass from the Her. Hopper Williams of the Act section of the content was accurately been according to the construction of the North Clarence Hailway, the distant parties in the section of the North Clarence Hailway, where they introduce crossing it, as was notenany for the construction of their introduce of the pressure of the pressure

or expensed the coeffice.

In Honori's said that when this matter was before him test Angust, his to Honori's said that when this matter was to fire the first to the first of the coronal same of the Act of Feetingers. His Histori's said than ohen this matter was before him test Angest, his elements was called to the chromataneous of the Act of Parliament being run. There a percolarive think a company Act. It appeared to bin to be fracted early to give the railway company there proved the testing with parties lamented in the land once which if whe proposed to vary the railway. The decreased in the land once which if whe proposed to vary the railway. The Act decreases when the board of the parliament of proventions displaces in the board party of the creaments of the cashe, but in his agicum the decreament had a right, on their land should be easily that the his agicum the decreament of the owners, great though being to take on tach of lood without the railway, one that the being the take on tach of lood without the railway. He might be wrong in the decreament of the callway were to depend on it. He might be wrong in the his options, and, therefore, the right should be tried at law. His hammer conscious by reducing the metition.

# INFRINGEMENT OF PATENT RIGHT

coter or event's seven Fig. 15.
Coces of Poasse. This was so estima for the tellinger
the paint was taken sed for improvements to the making of

THE MINING JOURNAL,

iont, but the witness being a su

tion of the deed by the defendant, but the witness being a subscriber bissective though he had paid up an call, was occard in stand down for the passent, until it was decided whether or not be should be emendered as interested party. The subscription of Richard Hall to the Parlimentary deed may proved, subject to a question as to his identity, which was reserved. The sace Brook is clerbly probable that the calls were duly made and advertised he company had been outhorised by law to change their attyle from the Andropham, Briefol, and Thames Jouction Mailting to that of the Wast of the Andropham, Briefol, and Thames Jouction Mailting to that of the Wast of the Andropham, Briefol, and Thames Jouction Mailting to that of the Wast of the Andropham, Briefol, and Thames Jouction Mailting to that of the Wast of a made, having paid meetry the bunn first required, and they were registered in the name of another person. Moreover, the works were not going tered in the name of another person. Moreover, the works were not going tered in the name of another person. Moreover, the works were not going to sa all the monagy received viscor 1 and been spent in law; the directors as a lift the manager park viscor 1 and been spent in law; the directors as a lift the manager park viscor 1 and been spent in law; the directors as a lift the manager park viscor 1 and been spent by the calls. In fact, to defendant had tennaterved his ten bazes had paid up all the calls. In fact, to defendant was made. The argisteres observables to a whom the works are the first work were not an advertised to the company, and asone compleints having the control of the ten shaves. Defendant was at that time a share-broker.

W. H. Cassens proved that on the 6th of July, 1826, he parchased ten observe he for the ten shave. Defendant was at that time a share-broker.

They Cassen was called on to give evidence for the defendant, with the work of the ten shave. Defendant was at that time a share-broker.

The last the world not be liable for any responsibilitie

# IMPORTANT RAILWAY CASE.

The jury retired, and, after considerable delay, returned a verifict for the jury retired, and, after considerable delay, returned a verifict for the jury color of opinion that the decide were attached at the tissue of signing. INFORTANT RAILWAY CASE.

COURT OF COMMON PLASS—FIRE IA.

GURNY C. THE SHEEPERLD, ARTHUN-CHORL LYNE, ARM MARCHESTER RAILWAY COMFA-REALD, ARTHUN-CHORL LYNE, A. M. MARCHESTER RAILWAY COMFA-REALD, ARTHUN-CHORL LYNE, A. M. MARCHESTER RAILWAY COMFA-REALD, ARTHUN-CHORL LYNE, A. M. MARCHESTER RAILWAY COMFA-REALD ARTHUN-CHORL LYNE, A. M. REALD AND ARTHUN-CHORLES AND MARCHESTER RAILWAY COMPANY, for act predicts of the possible to the date for stry tens of the state, Grant and the state state of the state, and the state of the state of the state, and the state of the state of the state.

Mr. Helphan William Reiner, and the state of the prevent the shipment, at the state of the state, and the state of the stat

LITERARY NOTICES.

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PROCEEDINGS OF PUBLIC COMPANIES.

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CANDONGA MINING ASSOCIATION.

A spacial general meeting of propertures of the above association was held on Saturday, the 12th inst., at the George and Vulture Tovern, pursuant to advertisement, for the purpose of receiving from the projectors is a statement of the circumstances under which mining operate had been resumed, on a historied scale, at Candonga.

Joan Cattley, Esq., in the chair.

The Sucretary (Mr. Happel) read the following report:

The preusal of the minutes of proceedings of the last general meeting of propriators of this smallesting lied on the 15th of February, 1841, will have reminded tors of this smallesting in the discounters, authority was given smelting the occupancy was then condensed, and that, moreover, authority was given to the discovers to send conditional instructions for the sale of the company's pre-

The CHAIRMAN, in commenting upon the report, stated that, upon The CHAIRMAN, in commenting upon the report, stated that, upon the CHAIRMAN, in commenting upon the report, stated that, upon consideration, the proprietors would see that the course adopted by Measrs. Tuily and Co. was not in contravention of the resolution they had come to at the last general meeting, insumed us it was obviously inexpecting atterly to ahandon their territorial property, without taking a further chance of its meeting with a purchaser. Should no advantage result from the experiment, it would, as the report stated, have been tried at a very the caperiment, it would, as the report stated, have been tried at a very unasleable into a saleable property.

Mr. Jonn Taxton gave a beind summary of the unining phenomical which had presented themselves at Candonga, and which, in his judgment,

insull cost, and, if productive of beneficial results, it would conver a unsaleable into a saleable property.

Mr. John Tavon gave a besid summary of the usining phenomens which had presented themselves at Candongs, and which in his Judgment, fully justified Capt. Dalley in the advice he had given, to stop the workings; at the same time, he was free to admit the extreme difficulty is determining the exact period at which it was proper to discontinue operations in a mine, and especially in a gold mine; he, therefore, thought had no other course open to them than the one they had taken.

Mr. Kingdon, as one of the committee of proprietors appointed at the list general meeting to co-operate with the directors in winding up the list general meeting to co-operate with the directors in winding up the list general meeting to co-operate with the directors in winding up the list general meeting to co-operate with the directors in winding up the off-size of the company, felt himself called upon to state the impression off-size of the company. Felt himself called upon to state the impression affects of the company. Felt himself called upon to state the impression inself on his mind, by a careful and attentive perusal of the occurrence off-size of the consideration of the capeton to the determination of concluding an engagement for the capeton to the determination of concluding an engagement for the capeton at the meeting the prudence of Captain Dalley, in discontinuing operations a tobought to give in the subject was, that, without, in the slightest degree, had not been added to the committee of the consideration be list of the sharebothers, for their secretining and unxious investigation of the representations made to them, and for the care and caution they had not reported to the directors.

Mr. Taxay inquired whether the experiment new entered upon as the state, in which is a sum not assessed in the contrast they had concluded. As one of the committee the report to receive and adopted. It is that, should the experiment

GREAT WHEAL CHARLOTTE MINING COMPANY. a special general meeting of this company was held on Moss-i., at the George and Vulture Tavers, for the purpose of em-sistima passed at a preceding meeting, the misutes of which i, were daily confirmed.

LONDON AND GREENWICH BAILWAY COMPANY.

LONDON AND GREENWICH RAILWAY COMPAN LONDON AND GREENWICH RAILWAY COMPAN The baift yearly green't meeting of the properience of the shew as held on Mindley, the 14th instit, at the London Theorie.

W. SHARDERY, Eng., in the olinit.

The formal business of the meeting baving been consided, it was read the directors' report, which approach now considered, it has read not been such as the property of the half-year; the traffic account showed a decrease of 41,221 passes half-year; the traffic account showed a decrease of 41,221 passes half-year; the traffic account showed a decrease of 41,221 passes half-year; the traffic account showed a decrease of 41,221 passes half-year; the traffic account showed a decrease of 41,221 passes half-year; the traffic account showed a decrease of 42,221 passes half-year; in the piace of Mr. Kotoskile, who had resigned; upon receive, in the piace of Mr. Kotoskile, who had resigned; upon receive, in the piace of Mr. Fishi bring objected to by the majority convertables occured, Mr. Fishi bring objected to by the majority son execution occured, Mr. Fishi bring objected to be the top in terreset to be obtained the object of the majority of the shiders did unto receive it pay each, if would be to his terreset for

calginal proprietors from ever citains to the effect." That every derecter should had at least 200 original where the but which, a fire some discussion, was on the drawn, on the anotherization the drawfare would, to they the usa wreting, their make up their some side goal absect to 100... Mr. First was then unandersomly counted... Mr. First was the unanders

GEOLOGY .- A NEW SYSTEM OF PHILOSOPHY .- No. VI. BY HENRY GRAHAM MOI

THE GARTH. THE EARTH.

THE EARTH.

THE EARTH.

THE EARTH.

The is he would stand at the portain of recoversor, and by down the mind's advence, saying to the soul thirsting after knowledge, thus far shalt thou go, and so farther." Is not the Mind, in its constitution, an eternity within itself? it howe in obselfence to no earthly of the pinions of imagination, it forms and fashions others of its mit rests not content in the pripes or the cot, but walks through the ph anfettered by time or space—it pries into all things, and lives, and even, and acts, as though unconscious of the clay which binds it to the rib—it lughs to scorn the manacles of fanaticism, the dungeon's som, the restraints of bolts and bars, and seeks enjoyment from each lary painful econo. In sunny fields and cloudless skies—it turns, with thing from what men call pleasure, because it sees disease and death needled within the cup—the knees may bend in prayer, the lips may dreary painful scene, in sunny fields and cloudless skies—it turns, with lathing from what men call pleasure, because it sees disease and death sourcealed within the cup—the knees may bend in prayer, the lips may move, but yet the Mind will wander far away, as though its innate pride isdains the homage paid—on the bed of death, when the bedy experiences the pangs of dissolution, still, still it wanders in its full-fledged strength, through palaces and bowers, deriving health and youth from enery glowing some it visits—it proclaims power within itself—pain, grief, or madness, may cloud its conceptions, but, from the midst of desolution, the coresontions of its beauty still shoot forth, betokening its presence and its cower.

stength, through palaces and bowers, derrich praish and youth from geny glowing some it visits—the processions power within that-main, grinf, ge madrace, may cloud its conventions, but, from the mides of demolation, the correspondence of the theory of the conventions of its beauty will about forth, betokening its presented in the process of the palace of the palac Valueses are written on the suppose from existing phenomena. Valueses are written on the supposed confri-pedid and confribuel force—aftrorium and repulsion—and on the natural and qualifies of the interior of this planetary body, some dogmetists insist by it is of consolidated matter, increasing in density towards the contra others having a nucleus of adomantine qualities; others, and the more to are equally streaming in advocating it to be a liquid flory on high pressure engine, having anisty-values, all of which they describe by diagrams, illustrative of this imagining—any, this forcy element with a certain degree of retional actions, by and are round against the fight of the researches of all those theorists the light of characteristic end apprincipl in admitted only so for as is accordant with these theoretical views, the media sperusadi of Naines being exact-

Sensely rejected.

In my preceding acticise I have speaken of the common as a body of waters, varying to its unsatifies and qualities in issue portions of the globs, and frontaining observatory principles, precisesfor principles, and expensessor.

Enuis particles and aggregate unsate, exhault and registalise orders, processor, and speakens, because the continuity disposed or diffused, and continuely disposed or diffused, and continuely disposed or diffused, and continuely disposed or diffused. filtroughout its medium, having on true geometrical form, perpetually skeying in its quantities, in the disposition of its parts, and in its truspe-tation. I now take my large of it for article, and turn to the second page in the Volume of Production. in the Valorie of P.

Type: Ditribut? with with image death, triamphant, tooks his solitory truet, outling grim extens on the passer by—the fastful and the text. His—and yet, in Nature, the solution and beautiful. Here we televisible—and yet, in Nature, the solutions and beautiful. Here we televisible—and yet, in Nature, the solutions and beautiful. Here we televisible—and yet, in Nature, the solutions, saked state, gradually or midstally expected by the solution of the television of the production of the television of the television of the forther only deferming —the function made of production of the forther only to the forther of the variance of the solution to the forther of the solution of the THE DESERVA-the vost, the magnificent amphidis

of by a general or local catastrophe; the former are more particularly distinguished, from the immense deposits of muriate of sods covering their surface, or locally or generally diffused through their strats; the latter, from the total absence, or only partial presence, of this material, and other peculiarities of the soil. Some of these deserts abound with asphtha, and other hituminous matters; others, as the Great Desert of Zabarob, have a hard bed of marl, untiting in its motific wast accumulations of funal bodies, and its surface covered with netrifactions and calcurrous asphiba, and other bituminous matters; others, as the Great Desect of Zebarsh, have a hard bed of ourl, uniting in its matrix vast accumulations of fusail bodies, and its surface covered with petrifactions and calcageous matters, over which the sauds shift from place is place, is a similar manner as within the waters, being governed in their direction and disposition by the winds and local obstructions; the Lybian, Arabim, and Mesopetamian deserts, are a succession of hills and chains of hills of calcareous matter—of penderable rocks—of beds of shell fish—of plains covered with the petrified bodies, and remains of bodies, of occanic animals—of sends, being the comminated particles of those bodies—of salt, in aggregate masses, or otherwise efflorescing over the surface—the whole material beneath the trend, and for some hundred feet below the surface, being the commingled wreck of occanic orders and genera, or locally disposed in groups and families.

In almost every stratum of the great deserts of the earth, the focalistichetons of sayriads upon myriads of creatures of the deep, wholly, or partly, compose the strata termed earth, the same having preserved their entirety, or enough to identify them through a long succession of ages, and, opeaking by their disposition and quantities, of ages previously existing, being the uncertaing evidences of the slow and progressive operations of Nature, and explaining, clearly and explicitly, the causes of effects manifest to observation. In some places are beds of pearl oyaters, and groups of scophiles, manifesting the slow progress of generation in warm and tranquil seas—hills of cirrhipede, consolidated or decomposed—calcareous masses, composed of polypers, aponges, marine plants, and the relica of numerous appeics—calmities, crustance, and other calcareous

and tranquil seas—hills of cirrhipedee, consolidated or decomposed—calcarcous masses, composed of polypes, sponges, marine plants, and the
relica of numerous species—echinics, crustaces, and other calcareous
animals—plants, and atomic particles—all now united in close relation,
ship as one whole, and awaiting other influences to make the union more
complete. In some of the valleys every fossil is covered with a delicate
bloom of sulphate of magnesis—in others, the muriate of sole, in large
pure crystals, gives the earth a lustre almost ton dazeling to beheld—or,
otherwise, the smaller particles rival the anow in parity and whiteness;
here the rock is formed—there it is in the act of forming—base the eggregrate mass is assuming a stratified appearance—in another place it is decomposing in all its parts, or ambling to pieces, and filling up the valleys.
In the midst of scenes like these, of pakedness and desolution, not a solitery spark of life appeara to relieve the eye from the sad monotoer

composing in all its parts, orambling to pieces, and filling up the valleys. In the midst of scenes like these, of makedness and desolation, not a selitary spark of life appears to relieve the eya from the sad monotopy around; but the heart of the traveller qualls within him as he wanders through trackless paths, inhales the burning poisonous blast, and stoops to the earth the wretched victim of angovernable thirst.

In those deserts where the rains are unfrequent, being in some parts rarely, if ever, known, the regetation consists of miserable scrubwood, sparingly distributed in localities, with here and there a solitary sensis standing, as a landwark to the wandering Arab; of saimals there are none, not even a fly or gnat. The coil teems with poisonous gases and bitter salts, insinical to the development of life, and the arid burning atmosphere is equally inimical to its support and propagation. Such are the characteristics of all the Arabian, Sprian, and Previan deserts, scated within the broad helt of the torrid zone, and extending into more temperate climates; and such are the characteristics of the numerous islends in the Red Sea, the Persian Gulf, the Indian, Pacific, and Great Southern Oceans, where the crests of the reefs become cleaned above the waters, and, so long as the moisture requisite for the production of organic bodies is withheld, the barren lands continuing such from age to age. In this state Nature sometimes alumbers for agas in her work of organic bodies is withheld, the barren lands continuing such from age to age. In this state Nature sometimes alumbers for agas in her work of organic bodies in the fees all and misercal kingdown her protean powers are daily and hourly manifest, in the transition of organic matter into inorganic thus, the cast-off clothing of melluscous animals changes as acted upon by the local influences her which it is surrounded, decomposing, consolid, these the local influences are her which it is surrounded, decomposing, consolid. thus, the cast-off clothing of mellucous animals changes as acted upon by the local influences by which it is surrounded, decomposing, consoli-dating, aggregating, or dispersing, as the accidents of circumstance may determine; the sulphates, phosphates, nitrates, and muristes, appear in their varieties; salt is formed in the busins, gradually abstracted from the waters, or in hill masses, consolidating as ruck, and the earths motting

with the acide farm muserous competands.

It is not my intention to comiss my views in a small portion of the earths; the virgin soils, or desects, embrace the larger half of the surfoce of the earth, comprising three fourths of Africa, of Arabia, Syris, Palastice, Persian Kondistan, vast tracks in Asserice, India, China, Australia, and groups of islands formed, or forming, in the several seas and occans where the causes of effects are most manifest—the whole of these vast surfaces presenting to observation the like phenomena, interminable plains of eand, bare gravel, and calcareous matter—extensive bods of shell-fish, ocean marls, plains covered with sait, nitre, and phosphate of magnesis, selestic, jusper, and other bodies and compounds; all appear to be what they truly are, bods of seas, some gradually devoted above the waters, others as gradually appearing as the waters decrease, others produced by the evaporation of the waters therefrom. Their sands are the ocean sands—their rocks are compound, or compounds; from and by, oceanic organic bodies, being chiefly endomate and sulphote of lines, jasper, parplyry, and sandstour, and their stones and pubbles are patrifications progressively advancing towards the mineral state. Some of the desects, as those of Persia and Ava, shound with vast accumulations of animal bitamen, the very rocks being saturated per se with mineralized animal oil; some of these desects for their oceanic of lone shifting sands; all of them have their local phenomeno of preduction of waters; the great desects of Zaharab, the desects of Lybis, Persia, Mesopotamia, and Syria, are characterised by their vast accumulations of lone shifting sands; all of them have their local phenomeno of preduction of waters the great desects of Saharab, the desects of Recope, for beds of this ground and universal wreck of oceanic organic bodies will the geologist limit for the manierial of the older exist of Recope, for beds of cond, of free, of oceanic organic bodies will the geologist limit for the manierial ith the acids form numerous compounds.

It is not my intention to confine my views to a small po

see and valley 2 livering makes the revers to w, or the reas, waters per-late, formishing ground of the concess nonneary to office the end proposed r Nature, as terrestrial vegetable life. From heal sussess the local af-cis are produced; the dry and sendy deserts, industrial to tife in every ran, continue bare and dessited from ago to ago, and preserve, from de-corposition and change, the bade of shoft fair, and other merine products, bick are thus, as it were, becometically sended from atmospheric influence. ages which budies and aggregates nodergo, when exposed to obscur-ric influence; the whole had of culturous matter shounds with sub-ric soid—the surface of the earth is coated with sulto-and some of the

be light contained who sign composed the metallicide only are manifest, if we compete to chick and a very where manifest, is an avery where manifest, is the article and a very where manifest, is the metallicide only are manifest, if we compete to chick and only are equally anknown, the vegetable matical distance of the homoulaties of the values. In the place of cook, the description of the homoulaties of the values. In the place of cook, the description of the homoulaties of a some and policy and the context. It is true that the homoulaties of a present the context of prevential clay, here is an undersome grey tak mart, some orders. It is found to thickness, vertically instead of grows and gold, all automated brings and is found in character in whether and the context of the

The prominent features of the young cools aggregates, as many, magnests, som, lime, sed the explastes, curbonates, muristre, and nitratres. In all, and the re is a manifest confusion.—Nature is, as it were, straggli-citated life. The first mineral aggregates produced from citated life. The first mineral aggregates progled material in CULORIDE of SODIUM, off spreading over the surface of the soil, and foll adually formed in the loose calenceous mass; ser blending in its body car The next, and most produced with sall is overent, to account of time. On the Arabian coast of the Red Sea th tious of oceanic matter, consisting generally of both remains, but now entirely removed from the action components of the meases are generally the sulph passing through the whole, or developed by the is and uniting with lime, code, magneties, and other or acid, to passing through the mass, unites with the sulphate of lime, as an attemption. Again, when the uniting mass, the triple compound goerry gay sulphate of line, as ANARDMITS. Again, when hydrogen is the uniting mass, the triple compound spervy gypens, or selectional. Again, the sulphurie seid, passing through the aggregal it falls upon the atomic particles of those masses, in spins will chemical action ensues, simultaneously manifest in each atomic the acid acts as the common busin of the whole, and ultimately whele as a crystaline body or rock, being rock gypens in its In this general union, the ultimate result depends, not only temperature and local surveism, but also on the degree of a lateral pressure influencing the channing body. Thus the form Again, when hydr

temperature and local accretion, but also on the degree of action intered pressure influencing the changing body. Thus the force of vertice opposed to the free expansion of the molecules of matter, prescribelist is contact overcoming the energy of action, the several particle being in this manner forced into union, and thus consolidated as rock. Suprara or time, or avenue, as is well known, is very extensive disaminated through the upper strata of the earth, under a variety of for and conditions, and is almost invariably in close preximity to the late of the case in this its primary development, the presence sait being casential to its composition and character. Sometimes it developed in extensive beds of earth, aggregating with line and of accessine matters, the sparary development free in its developmes shooting forth above the cands in vast quantities, being too bright a developed in extensive bods of eard, aggregating with lime and othe occasio matters, the aranav avecus being free in its development shooting forth above the eards in vast quantities, being too bright an dazaling to gaze upon during the iday. In some of the beds it form strate of a foliated texture, and much resembling ice in appearance. Some times, the animal bed, composed of a particular species of shell-hearing animals, in the first place decomposes, and, receiving within its composition exchanic soid, the first result is cheld; in after changes, the sulphuric acid, falling upon the mass, displaces the carbonic soid, and thresult is gypaum. The stony points of some of the cohinomedie are generally the first to become converted into sulphate of lime.

Such is the primary material, and such are the combinations and cause of the effects produced under the head of sulphate of lime. Sulphurous gas is meat extensively developed in the decomposition of occasio bodie deriving its origin therefrom, freely disseminated in and throughout the virgin soil; it attaches itself, or is attached, through the medium of other compounds, to lime, and other earths, and passing thence by transition into numberless bodies, in many of which its characteristics are forced to the contractions and contractions are forced to the contractions and the contractions are forced to the contractions and contractions are forced to the contraction and the contractions are forced to the contractions and the contractions are forced to the contractions are forced to the contractions are contracted in the contraction and the contraction are contracted in the contraction and the contraction are contracted in the contraction and the contraction an

The earths of soda, or codium, magnesia, or magnesium, are also extensively developed in the chemical coebbinations which naturally take place in these localities of the desert, on the first appearance of the oceanie matter above the waters, uniting or dissemminating with, the soids, and gradually consolidating, as will be explained hereafter. The cause of action manifest on the older strais have not ceased, for in every stage of production, the material, and the like solion manifest, must of necessity produce the like results. In those extensive portions of the earth, spreading over some thousand square miles, many of the phenomena of close straits are not yet manifest, and, on the older hand, the infant productions are many of them preculiar to the soil and the climate rypeam can be formed in vant aggregates only by pseuliar local action, manifest in local accretion—thus the placemena is local, and not general r volcance action would decompose this and lineatons sucks, by abstracting the sulphuric soid of the one, and the carbonia soid of the other. Volcances are the ministers of destruction were than the square of production, obrogating the works of Nature, and Introducing confusion where order was must manifest; by their action within the earth, they separate rocks the most poni-becable, transferring their stansie particles, commingled with the wreck of innumerable bodies, from the interior to The earths of sods, or codium, magnesia, or magnesium, are commingled with the wreck of innumerable bodies, from the interior the surface of the earth, there to moderne new changes and violation

The changes manifest in desert soils, where, undisturbed by alumin and other terestrial products, are such as characterize occurs matter thus, for inclance, the coxygen of the atmosphere falling upon line as water, the nonce oral, is produced? but when the serestrial produce fauntine, is united with the above, with from so common to both, it could be sure oral, the elemine contited in this administration to the result of years oral, and from in definite proportions of each, prisonable magnesian spits produced. Magnesia, in union with nation, from debounds, but, order to produce the result, constant and internet simospheric hand to requisite, with little moisture. Ends, united by sulphuric acid, which form the common basis of the about particles, the result is sulphuse of soid with carbonic acid, it becomes nairon, crystallized, fiberon, or measive lavesting or efferencent, as local action and union may determine; which line and aboutes constitutes a portion of the material, the result is writishly manifest, as astrolite, which the The changes manifest in desert soils, where, undisturbed by ale

# GEOLOGY-A NEW SYSTEM OF PHILOSOPHY.

Fig. —I observe that you have, of lone, opened the columns of Journal, pretty widely, to some idle and ill written speculations, regular origin, formation, and constitution, of the earth, which the veloces to density with the little of Gestley; a enough the rest, in the brations of a Mr. Mostague, coldied "Limbury — A New Systems of locophy," with a continuation of which, also, your readers are thousand the column to be the operation then what is to come be no better operation then what is to come be no better operation then what is to come be no better operation then what is to come be no better operation then has thought proper to affird as of his philosophical a possition, you might as well spare your readers he is protonosite farrages. As, for example—" Nature is of the past are in the bills, the secuntains, the valleys relice of past generations, decomposed, decomposing, one universal language, easily understood by all men—cilling offices of local inflament, for, for, M. Nature be true representation of Nature. If all speak, a language on this writer himself mesons to give persol that it may be qualit than to write, intelligibly. Again.—" Nature, in her by imagin casses, each not by cortain securing prescrated out of many the language of all those, determine the result." It by knowle consent, and not by criteria merci. "" It is insuparedible to and motions, at all timete, determined the result." "" It is insuparedible to provide the Nature is guided in the result. by design mention." And he provide allowed the operation of what he colds "concepted mention." And he provide allowed the operation of what he colds "concepted mention." And he will not unfaintiful to operation of what he colds "concepted mention, the heave and of the transport of the transport of the transport of the same of tractal assumed that they concert provet), that all the concert gradient of the provet, and what they concert provet), that all the concert gradient after an assumed the method of the same tractal three provets, and what they concert provet), that all the concert gradient after an assumed and the concert gradient of the approximation of same and the entity. The concert of effects primarily problemed are over viewing? as probagation and insurance qualifies and insurance and increases are monitorial afternation in the propagations of production." "The relations of ments to the propagations of account of the concerts and production." "The relations of ments to the propagations and insurance and of Materials. In a warf of second-driving with non-mone of the concerts and production of account of the concerts."

Physical providing in projection to the propagation, and assembly the followed.

(It will be seen, by a Notice to Correspondence, that we have substituted, Wilson's letter to Mr. Mountages—a sentent which we progress admitting as all copies and algorithms and there believe any treat we for propers of that gentlement as course of patients in the propers of the gentlement.

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lowing observations may, therefore, be considered as that graticman's note Chargen.

It is the misfortune necessarily stached to all writers on natural or movel philosophy, to assume that which they cannot prove, and to demonstrate treths, to embrace which is beyond the compans of ordinary misds: it is equally certain that ideas, derived from things manifest to the senses of the philosophic charver, may be unnavarishly correct, although the conceptions derived from those ideas may be erroneous, for the human mind is an imperfect and fluctuating result, having no other guide to its decisions than its own powers, derived from ideas previously received, its powers increasing with acquisition—Nature, in her changes, acting by innafe course, and not by certain marring roles, the chances of acquisition and combination defermining the result. Geologists are not exempt from this common misfortune, of assuming that which they cannot poors, other than by demonstration, hor can they, in numerous cases, be justly called upon to do so; but, at the same time, the faild of controversy is open to all men, and theomous of dispressed of their axionan less with those who enter the lists against them. On the other hand, if they do occasionally assume that which they cannot prove, they also prove many things which they do not assume to be traths, but which, when abstracted from the hills, the mountains, the calleys, and the plains, speak for themselves, in the silent eiquence of Nature, appealing to the evidences of the senses, and proving, beyond demonstration, that NATURE IS TRUES. Language, as every don's experience textifies, cannot mark the boundaries of scleance, nor is the English dictionary the failences, the mill the changes it still points on what is due, in courtery, from man to man, and the wide distinction between aryment and abuse.—H. G.

BRAZILIAN COMPANY.—The directors having resolved to make a CALL of FIVE BHILLINGS per share on the Conceipes shares, fors are requested to pay the same at the office of the company, on Thouses, or faturday, the id. 4th. and 4th of March, between the hours of Eleven see o'clock. They are requested to leave at the came time their vouchers, instalment may be industed thereons. All shares on which the call may not are liable to forfeither. A report from the directors may be had at the company, 4, Broad afrest-buildings.—Fubruary 19.

—The directors of this institution hereby give notice, that they intend to mark MEDALA for the following INVENTIONS:—

1. For a WORKING MODEL of the most improved LOCOMOTIVE-ENGINE, by lease or other power—a Gold Medal.

2. For the second best ditto—a filter Medal.

3. For WORKING MODEL.

For the second best diffe—a filter Medal.

For WORKING MODEL of the most improved MARINE ENGINE—Gold Modal

For the second best diffe—a siver Medal.

For the best SELF-ACTING MUNICAL INSTRUMENT-a Gold Medal.

For the second best ditto- a filter Medal.

7. For a MODEL Bustrating the most improved PRINCIPLE of UNWATERING

For the best SUSTAINING GALVANIC RATTERY—a Silver Medal.

For a MGDEL illustrating the most approved METHOD of RAISING ORDS,
from MINES—a Silver Medal. For the best SUSTAINING GALVANIC BATTERY - Silver Medal,

in from MINIMA—River Menhal.
In the distribution of these Medals, it is not intended to exclude inventions the accious patented. The Models to remain for Exhibition in the institution for a set the space of one year after the Medals have been awarded, should the direction ink proper for overain them. The Medals will not be awarded if the inventions an outsis are not considered to be improvements on machinery now made. The Mo a to be forwarded to the Institution on or before the 5th of May seat.

January, 1942.

# MELTINGS OF SCIENTIFIC BODIES.

	OF MESTING.	BAY.		
Borni Asiatio	14, Graffon street	Saturday	2	
Statistical	4, St. Martin's place	Monday	8 F.M.	
afadical	. Bull court, Firet street	Monday		
Royal Medical and Chi	r. hl. Herners street	Tuesday	54 P. M.	
Civil Engineers	25, Great George-street	Tuesday	8 P.M.	
Resident	AJ, Pall-mal'	Tuesday	64 F. M.	
Bososty of Arts	Adelphi	Wednesday	74 F.M.	
Geological	Somersel House	Wednesday	8 P. M.	
Medico Botanical	. NJ, Sackville street	Wednesday	8 P.M.	
Borsi	Romerset House	Thursday	86 P. M.	
Autiquaries	Somerset House,	Thursday	8 F. M.	
Mi. Bootsty of Literatus	u St. Martin's place	Thursday		
Numismails fineisty .	. Bomerset House	Thursday	7 P.M.	
Sorpal Inetitudios	Albemarle street	Priday	SE P. M.	
Borral Botanteal	Regent's park	Between	4	
Westminster Medical.	. Exctor Hall	Saturday		
Mathematical	. Crispin struct, Spitalfields	Salurday		

to The mirror of the President of the Grological Society (S. I. Murchison, Esq.), appropriet to commence at his residence in Seigrave square, on Saturday, the

# FUBLIC COMPANIES

	WESTINGS.	
General Bram Navigation Co	. 68, Lombard street Peb.	22 1.
Mt. Marylelenes Joint Stock Bank.	. 66, Lombard street Peb. Boar and Castle Hotel, Onford et.	39 6.
Bushess Counties Ballway	Station, Shorteditch	30 L.
Liveryood Banking Company	. Clarendon Rooms, Liverpool	22 1.
Thames Haven Duck and Railway	I, Mt. Milderd's court	38 19-
Aurtum Life Assurance Company	Ph. Cornhill.	28 L.
British Shipping Compony	George and Vulture Tavers	26 le
Clean Woolern Ballway Co	Ciffice. Prince's street	94 IR.
totals Waste Lond Improvement Co.	A7. Old Broad street	24 12.
Durham County Coal Company	Sun lan, Bartington	24 12.
Condago Mining Company	Fr. Austinfebers	24 1.
Branchagham & Liveryd June, Can.	Mrtitisk Model, Corkepus street	24 2.
Boothampton Dock Company	it, Blabopagate street within	26 2.
Harls Railway Company	th, Bishopagate street within Rectory House, London wall	24 1.
Hall and finite Railway	Town hall, Elagulou spon Hall	26 II.
	Londo Station vit a capturer par-	De t.
Hungerbird & Lambeth Susp. Bigs.	A, Villors street, Strand	M 2.
London and Blackwall Ballway	London Tavers.	M [ ]-1
London Strand Junetica Ballway	f, Essing ball street	TO In
Artgan from and Cont Co	Ciffice, B, Liverpood elevet Murch	1 h
Thames Tonnel engineered title to	London Tuvern	1
	Covere and Yulture Parers	3444 14
London and Westindarted Bank	Bank, Londoney's herety-recent	8 b
Andresce Controlleded Mining Co.	Office, is, Final-ory square	F F.
Cornwall Ot, United Mining Co. ;	George and Vulture Threes.	F 18-
Bristot and Raster Saltway	police manning	A 12-
Imperial Brastles Mining Ass's.	London Taxern	A -114 Be
Book Life Assurance Company	New London Hotel, Relign-street	B 18.
	CALLS.	
Barth Cresolidated Mining Co	a. 6d. Feb. 21 Williams and Co.	
Publicann Vin and Couper Co	to pur sit. [1]. Breaugust and Co.	
the Discolant Obe Missing Co 10	a March J (6, Birchin-Ince.	
Brandless Crosswall 8	A A. Broad screet had	id mgs.
December Copper Mining Co. 16	Marrie Pt. Mirchin lane.	
Bast Eveloit Mining Company 5	A 14 6, 80 Million Low	art.
Storthern Coal Mining Company 2	A IR Newcastle Joint B.	ork Bank.
Salada Winaster Laurel Date. Street Sales 1	April 16. As former rails.	
Chambelon from A Spolter Co 1	164. sent a 17se s An Streeter calle.	
	HIVIDANDA.	
	per cent Office, Dublin	. Pak. 14.

# METHOROLOGICAL JOURNAL, 1848.

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-	2.0		-	80	\$6.86	\$10,80	Wadnes.	18		82	48	\$41,100	86,10
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While S. and S. W.

In the 19th, secretary fugge, afternoon cloud; evening clear; the 11th, some sal, otherwise recovers, take to the evening; the 15th, secretary createst, sale to the evening; the 15th, secretary createst, effectively of the secretary cloud; the secretary cloud; the secretary fig. of the secretary fig. control for pure pure, the 18th and two believing a greatesty cloud; the 18th, should, large evening.

Base failure, the of section.

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CRARIDA MARKET ANAME

# THE LONDON GARRITE-BANKRUPTS

## NOTICES TO CORRESPONDENTS.

To repret that we should have received so many complaints of not receiving the SCPPLESHEY, published with our last Journal, but the blame, in every lootance, neard rost entirely with the bookseller, or newsonan, through whom the paper is supplied; a cupy (which, it may be observed, was not attended with any extra expense), shall be forwarded according to the addresses transmitted.

presented, and tonosidered contable to the prescribed objects of the Journal, which, by the bye, is not of frequent occurrence.

Mr. "F.C.," alice "Bob Jackson," was certainly rather premature in even fancying he had ocuse to feel "disappointed" in our tardy insertion of his paper; the great presented of the properties of his paper; the great presented of the properties of his paper; the course, and (with all due deference to him), the limited interest possessed by the solution of mining probjects, compared with those caccellent traviance, to which we felt bound to give precedence, is sufficient explanation for the course we adopted; we, however, shall always be happy to bear from him, and to give his favours the certisest possible attention.

An Old Subscriber "(Swansea), who writes concerning certain "doings," seems an well informed on the subject as not to require any additional information from us, and we really do not think that the publication of his letter would afford any interest or gratification to our readers.

We have adopted that course with the letter of Mr. Wilson (inserted in another estumn), which we intend pursuing with all obsequent communications having reference to the papers now in course of publication through our columns, by Mr. Montagno, of forwarding them to that gentleman, so that he he may attach his comments thereon. We now ispend, what we have before stated, that we do not hold ourselves responsible for the opinions or ascretions contained in those papers, which, we must distinctly wish to be understood, must alone rest with the author.

We have received a second paper from Mr. Hood, on the subject of the Combustion of Coal, which will be inserted in our exit.

Lectures or Civit Resummants.—Our report of Professor Vignoles's lecture-delivered on Wederstood on Medication of Me

accuses on Civit Enginematic.—Our report of Professor Vignoles's lecture delivered on Wednesday, the 16th inst., is necessarily postponed.

Ervalum.—In Mr. Phillips's explanation of the manner of admitting water or stea on the engine for raising miners, inserted in our last, the word disk, which o curred once or twice, should have been disk.

## THE MINING JOURNAL, Mailway and Commercial Gajette.

LONDON, FEBRUARY 19, 1842.

The Anniversary Meeting of the Geological Society was held yesterday, when the Address on the presentation of the Wollaston Medal, and review of the proceedings of the past year, was delivered by its talented president (R. I. Murchison, Esq.), in the course of which he passed a well-merited eulogium on the labours of those in the scientific field of research, to which the attention of geologists had been directed, as well as to the merits of those members of the society who had, during the past twelve months, been removed from this busy scene to "that bourne from whence no traveller returns." The anniversary dinner took place in the evening, when addresses were delivered by the first president (Mr. Gerenouth) and the present, as well as the Russian Ambasador, Dr. Buckland, the Marquis of Landowne, Duke of Richmond, and other influential members. We will endeavour next week to give a detailed account of the proceedings, with an abstract of the President's Address.

Parliament has met. The Corn Law question has been canvassed, and, although the session is too young to expect results to
have arisen from the midnight meetings of the legislative assembly,
yet we are glad to find that the sulphur mines of this country have
not been neglected, even at this early period—Dr. Bowarno having
moved for certain papers bearing on the negotiation and final settlement with the Neapolitan Government, as regards the breach of
faith on their part, and the consequent injustice done to our mercantile and shipping interest. Whatever may be the ulterior object the honourable member may have in view, it is sufficient for
us to observe, that the attention of Parliament is directed to the
subject, which, once excited, must (at least, so we should hope
and expect) lead to such commercial treaties, and understanding
between the two countries, as will be protective to our mining between the two countries, as will be protective to our mining interests at home, while they are based on principles of reciprocal advantage and fairness.

interests at home, while they are based on principles of reciprocal advantage and fairness.

This question becomes one of increasing importance, as relates to the import of foreign sulphur without a protecting duty, when we find that a sale has been effected, within the past fortnight, at the rate of 65s. per ton, in Liverpool, whereas the current price for a lengthened period ranged between 10d. and 12d. per ton. As the sale to which we refer has had an influence on several parties connected with the sulphur districts (but which appears to us to be based on ungrounded surs), we have taken some pains to elicit, from the best authorities, the relative positions of the aulphur mines of Sicily and those of our own country, and also gladly avail ourselves of the observations of a gentleman immediately connected with the sulphur trade, who has seen the ore lately imported from Sonyma, and on whose judgment we can fairly depend.

In the first place, then, it appears that 140 tons of sulphur ore were brought over to this country, and, after attempts at private sale having been made, was offered by public auction, in Liverpool, within the past ten days, when, there being no disposition on the part of the manufacturers to bid, the parcel was withdrawn at 4d. 10s. per ton. We are, however, informed, that, subsequent to the attempt at public cant, forty tons were disposed of at 3d. Sa. or, as another infurmant says, 3d. Sa. per tum—the lowness of the price being attributable to the desire on the part of the importers, to get the article introduced, and next its inferiority as to produce, yielding not more than 60 per cent., and being too freely mixed with the gassyse or rock and earthy matter. That the ore could be raised, and transported to this country, at 3d. Sa. per ton, is too abourd for a moment to reflect upon, and, with the view of comparing the value and cost of our own produce with that of Sicily for we leave the imports from Sonyrna out of the question), we will take facts and figures as our bases, and leave to

their own deductions.

It is now some months since that His Vol.cante Majneyy was compelled, serviy against his will, to annul the compact entered into by him with Taix and Co., whereby a heavy stock of sulphur was shrown on his hands. His Majneyy had been previously in remas thrown on his hands. His Majary had been previously in reorder of of, or, at least, had, the paid pro quo, to the extent of 41.10s,
per ton; but having been obliged to return to honest dealing, and
wanton money, he entered into arrangements with a house to who the
wanton money, he entered into arrangements with a house to who the
wanton money, he entered into arrangements with a house to who
he sold the stock of some term of thousands of tons at a price 50
per cent, less than that which the article had commanded during
the term of the linguit contract. The consequence, as might no
turnly be expected, was the decline in price of from 11£ to 12£
per turn to 6£, and the market being delaged with Sicilian solphor.
The high price to which sulphor had been raised by this underhalt of the first and it is proper to notice that all the working
agreement between His Sicilian and arrangement to the exploration of minors in this country, which were
found that they could be rendered at a price comparatively less
than foreign sulphur, operations on an extended scale were undertaken, the result of which is, that at the present moment the country,
which is mearly the quintity annually imported, within the past
few years, into this country. This, we may observe, is independent of the transposency streamed for the present of the sum of the parage of mass
and mearly the quintity annually imported, within the past
few years, into this country. This, we may observe, is independent of the resoult of which is, can and observe, and other paratic of levilance
which is mearly the quintity annually imported, within the past
few years, into this country. This, we may observe, is independent of the til year of the present a proper can, with the
residue of the paratic of which has not required no retaken, the result of which is, shall at the present manner, averraging 40 per count, or equal to 22,000 tons of Sicilian sulphor,
which is mearly the quintity annually imported, within the past
few years, into this country. This

dressed at surface, including all expenses, excepting water charge and agency—of course, exclusive of tutwork.

We may here remark, that the old stock of Sicilian sulphur is diminishing considerably, while prices are looking up, and the shipments very scanty. Of the 2000 tons of Sicilian sulphur in stock at Liverpool, some two or three weeks back, 1250 tons have been sold within the past fortnight, and the price has advanced, as we seen by the quotations, despite the isflar of Smyrna ore, to the vast extent of 140 tons, of which nearly one-third has been sold, so as to realise one-half the price of Sicilian sulphur, and rather more than double that of Wicklow ores—a happy medium, which will doubtless, allow them sufficient to cover land carriage, freight, and agency, and leave the adventurers to pay the cost of raising. As evidence of the state of the sulphur trade, as regards the supplies from Sicily, we may further observe, that the total imports to Liverpool, from 31st December to 15th inst., amounted to only 356 tons—the quantity we formerly imported may be taken at 36,000 tons per annum, or 3000 tons per month, whereas the imports during the present year is at the rate of 240 tons per month, or one-twelfth. This should in itself be encouraging to our home miners, although prices, for the moment, be depressed.

With the view of enabling our readers to arrive at a correct conclusion of the advantages which our home mines possess, in comparison with those of His Volcanic Majesty, and, as an inducement to parties interested to progress rather than to relax (to which latter course the present depressed brices might lead them) we promose

parison with those of His VOLCANIC MAJESTY, and, as an inducement to parties interested to progress rather than to relax (to which latter course the present depressed prices might lead them) we propose submitting the cost at which, we believe, the article of home or foreign produce may be rendered. We will first take the foreign, or Sicilian sulphur, and which, as we have already observed, after reaching the maximum price of 14L per ton, has been suddenly lowered to 6L per ton—the cause of which depreciation has been already shown. It is for us, then, to inquire, whether the low price we have quoted (although there has been, of late, a slight reaction) is likely to continue, as on that question hinges the prosperity of the sulphur mines of this country. The following, we understand, to be the charges attendant on the import of Sicilian sulphur:—

Cost of raising, dressing, and land carriage (twenty-one miles).... £5
Export duty \* , shipping, and landing charges—5 per cent......

Cost per ton, delivered at Liverpool .......... £1 10 8

# SIBERIAN GOLD MINES.

SIBERIAN GOLD MINES.

Whilst the gold mines of Brazil and Spanish America appear to be yearly falling off in their yield, those of Siberia, on the contrary, are yearly producing more. Nature (says a Russian report) has showered gold in abundance on the soil of Siberia. The eastern part of that wast country is remarkable at this time for its riches in the precious metals. The sands of the rivers there show the personne of gold in their bode from the surface, in many places for many tens of square versta, as for example in the river Grand Birusas, on the borders of the governments of Yeniuscish and Ickoutak, and in the hesion of the Tongounka superior, of the Oudérei and the Pile, which water the first of those go verameats. From the awage country it used to be, Siberta has become the realm of gold; its riches may now be accounted such, aithough the road to them has been paved with silver, it may be said, and made good by persevering industry.

The expluitations of the gold mines have been chiefly extended by private adventurers from the example of those worked by the Crows. Excepting the districts belonging to the imperial mines of Kniyvano-Venkressensk and Nortschinsk, or the country situated beyond the Baikal, the adventures of gold mining, and the search for votum of gold, in all the rest of Siberia, have been sucreadered to private enterprise on certain conditions. For a long time the speculators nearched fruitionsly in the deserts of that vast country, and inset their engittals and their health; but at length Nature yielded to the persurvenance of man, gold was discovered, and its working commenced in 1939. From this date it is curious to observe the rapid development of private (alone) gold mining in Siberia, neareming to the following official statement: I have

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### ORIGINAL CORRESPONDENCE.

SPELTER MANUFACTURE—BLACK. JACK.
TO THE RDITOR OF THE MINING JOURNAL.

SIR,—I must confess I was much disappointed in reading "H. E.'s" letter, promised by you some week's since, to be a regular "iluminator" of the subject, in your paper, headed "Spelter Manufacture—Black-Jack." From former reminiscences, I was not surprised at its prolixity, but was so from its lack of applicable matter. The total of his effusion amounts to this—"I am an advocate for benefitting the black-jack miner, by extending the make of English spelter," but, "as an increased make would lower the price, and as it can be made abroad for 181. (formerly he stated 141., which is nearer the mark), and the present prices must come down this year, don't attempt it, but wait for an improved plan I have in view, to make it cheap and good, and, probably, rollable," in which case all these buts would be thrown overboard, by his philanthropy for the poor black-jack miner.

We all know assertions are no proofs; but, of the former, "I H. W.".

went, don't attempt it, but wait for an improved plan I have in view, to make it chasp and good, and, probably, rollable," in which case all these buts would be thrown overboard, by his philanthropy for the poor black. We all know assertions are no proofs; but, of the former, "H. E." is most unsparing—time will develope all, and, as I said before, we have waited since 1839, and can still wait the "proof" as to this new—being an improved—plan, as to chespness, quality, and ductility. Some of "H. E.'s" assertions I regret, because they are personally injurious, and ill-founded; and, however they may tell to ground an argument on, ought not to have been advanced—first, that the rise was caused by speculators; and, next, that, aithough "one or two houses" had secured the make for the next six months, to uphold the price, yet that not only it could not be maintained, but that—221, to 261, being a "fair" price—it would recede to that "before the close of the current year." I could easily disprove all this as incorrect and unlikely, but, as I as not writing for or against a market price, I shall abstain from saying more, than that a body of well-informed uncreantile men do not generally, and simultaneously, act on faired data; these data did exist, and will continue, until more spelter, that will roll, is produced than we have had, or can get, from abroad. When these causes cease, and stocks exist beyond consumption, the natural result must be a fall in prices—meantime, the common forethought for rise or fall of mercantile men, should not bring them within the charge of being mere speculators, and their motives be injuriously and publicly impagned.

I come now to some of "H. E.'s " "facts." I cannot understand the necessity urged of a "reduced" make; the exemplification of the iron trade reduction of make is totally inapposite and uncalled for. The demand for home consumption, "H. E." says, is 5000 to 6000 tons annually—the make in England being about 1000 tons; surely, here is margin for 500 tons more—at the sinishmu

# THE "STANDARD."

THE "STANDARD."

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—I beg leave to apologies to you for being a means of disseminating that palpable error in my last communication of the 13th ult. I cannot account for it in any other way than this—In the hurry of transcribing, having multiplied 92 tons by 5½, on a detached scrap of paper, and copying therefrom, must have changed the place of the figures, at the commencement of the working out of the place of the figures, at the commencement of the working out of the proposition. I thank your correspondent, "E. T.," for calling my attention to it, in your Journal of the 8th instant. It is quite evident, to all who pay the slightest attention to the workings, that they will discover that the figures are misplaced; the 7 is put forement in the group, instead of 4, and vice nevad, and 4 in the middle in place of 7, which evidently caused the blunder in the finding the average produce, and, consequently, missing the right standard. This, however, does not at all militate against the rule laid down in the paper referred to, nor will it derogate from the method there su gested. Your sorrespondent, "E. T.," justly observes—"notwithstanding this error (noticed above), it does not at all interfers with the principle so clearly theidated," which was the principal thing I almed at, in farmishing you with the often solicited direction for making out the standard.

Heveil Suly, Feb. 10.

Saus PININE.

ON THE APPLICATION OF ANTHRACTIE TO THE MANU-

Hewel Suly, Feb. 10.

NAUL PININE.

ON THE APPLICATION OF ANTHRACITE TO THE MANUFACTURE OF IRON.

TO THE RIFTOR OF THE MINING JOURNAL.

SIR,—The successful application of anthracite to the manufacture of irm is a subject of paramount importance in the mineral district of which this place may be considered the outlet. Manufacturing operations not laving as yet commenced, it appears to me to offer an excellent opportunity for the establishment of improved methods of working, such as seidom secur, and which it would be immentable to see thrown gway. As I take a deep interest in the subject, I trust I shall be excused for using the freedom of making a few remarks upon smelting iron, and the application of the lines, because in the latter, where antiracite is used for fuel, I am condiment that, as yet, all the advantages to be derived, in a preunitary point of tiew, from its use, have been wasted by the expensive mode of application. I am ready to admit the efficacy of the present mode, and the excellence of the iron so smalted, but for astisited similar results are to be arrived at with infinitely less original outlay of capital and of current expenditure. of making a few remarks upon smelling irem, and the application of the lists, because in the latter, where anthractics is used for five of a precuniary point of few, from its use, have been wanted by the exposite mode of applications, therefore, from the exposite mode of applications, and the specific properties of the fiven or smellers, but for a careful of a precuniary point of few, from its use, have been wanted by the exposite mode of applications, and the fiven or smellers, but for a state of the prevent mode, and the exposite mode of applications, and the fiven or smellers, but for a state of the prevent mode, and the expositence of the few or smellers, but for a state of the prevent mode, and the expositence of the few or smellers, but for the calculation, which is a smell of the attention of the prevent of the few or smellers, but for the calculation, have the case of the list of the exposite of the capacities or the Message for a scheen working to the smellers of the capacities or the same of the list of the exposite of the same of the exposite of the exposite of the same of the exposite of the exposite of the same of the exposite of t

states that in his neighbourhood (Nantyglo), from some recent trials, a much lower pillar of blast than 2½ lbs. per inch has, with large tayers, produced very superior work. By reducing the resistance, which the peculiar structure of anthracite opposes to the passage of the blast through the furnace, as large a quantity of air may be driven through by a comparatively small power as is now done with engines of extraordinary capacities. A slight alteration of the furnace will effect this, and, at the same time, the necessity for high furnaces he obviated.

Liunelly, Feb. 15.

ON MINE SURVEYING.

## ON MINE SURVEYING.

Linuilly, Feb. 15.

ON MINE SURVEYING.

TO THE EDITOR OF TEZ MINING JOURNAL.

SIR,—We have a coal-pit, into the workings of which an irruption of water has lately taken place from the upper strata, and which, although not very great, as to quantity, yet, from the nature of the situation, is very troublescome and expensive, leading away with horses, &c., and is likely to continue; I would, therefore, beg the favour of some of your skilful and scientific contributors, to lead me a he ping hand in this matter, by directing, from the data following, which is the best and cheapest way to proceed in its removal from the works? The water produced is about 360 gallons per hour, and from the point, or reservoir, where it is collected, near the workings, to the nearest point of discharge (or teeming place), is 1837 links, or 1212 freet, all the way up an inclined plane, whose perpendicular height is forty-five feet. If a pump, or pumps, are advised, I request to know what size is most proper, both for the pipes and the pumps, to be used; and what the necessary working power? And, also, what I may expect as the useful mechanical effect produced, in proportion to the power expended? and these founded on data ascertained by the best known experiments on the friction of water in pipes, and the friction of the best constructed pumps (whether forcing or suction pumps). I beg also to say, that the water being situated, nearly half a mile underground, from the bottom of the pit, any idea of attaching the winding-engine to apparatus for its extraction, is, I apprehend, inapplicable.

BOS AT A PINCU.

ON MINE SURVEYING.

ON MINE SURVEYING.

ON MINE SURVEYING.

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—In my attempt to solve "A Miner's" question on mine surveying, inserted in your last Journal, in all the distances for free read fathoms.

Breage, Feb. 14.

Sin,—In my attempt to solve "A Miner's" question on mine surveying, inserted in your last Journal, in all the distances for river read farfament.

Breage, Feb. 14.

ON THE COMBUSTION OF COAL AND THE USE OF HOT AIR IN FURNACES.

Sin,—I beg to make some observations on the letters of Mr. Williams "On the Combustion of Coal, and on the Use of Hot Air in Furnaces," which have appeared in your Journal of the 29th ult. and the 5th inst. In the former of these Mr. Williams considers that I have attributed to him the opinion that "the same quantity of air is required to commune the gascous products of coal at all periods of its combustion "—not from what he has himself said or written on the subject, but from what others have erroneously attributed to him, this, however, is not the ease. I founded my opinion upon his own letter, published in your Journal, in which he says—"But I am asked, when is the time, and what are the circumstances under which a regulating air admission valve would be necessary, and when there is no combustible gas requiring such air?" I answer, "there is no such time, and there are no such circumstances ifur, in proportion as the carbouretted hydrogen is evolved and consumed, the fire becomes clear, and this carbonic exide gas is generated, domanding, in its turn, the name quantity of oxygen as went to the formation of the carbonic acid gas, from which it is produced, so that the whole of this ingenitual barried of the combustity of the coal of a restually doing mischief, by alternately expanding and constrating the metal plate of boliers, is shown to be a great themsel, and practical blunder." If certainly appeared to me that, by this paragraph, Mr. Williams very decidedly stated his opinion that the same quantity of eit was required at all periods of the combustion—an opinion which I have shown in my letter, published in your Journal of the 25d January, to be erroneous. Unless Mr. Williams lecture at the Victoria Gallery, to which he refers for an expentition of his views on the finition of the

somable, as a pert of the heat communicated by any ignited body must be lost in gradually reising the temperature." Sir H. Davy also ascertained "that the cooling power of mixtures of clastic fluids, in preventing communication, until increase with their condensation, and distintials with their condensations, and distintials with their condensations of their powers of the profession of fluids. In the condensation is very about distintial by recelecting, the distinction of fluids in the cooling power of the zacto being apparently in a higher ratio than the distinution of the heating powers of the burning bodies." And he likewise concludes, "that, at high temperature, gases not concerned in combastion will have less powers of preventing that operation than guess at the common temperature of the atmosphere. Six 1817 and Dr. Un's Excitancy of Chamistry (varieties "Combastion"), Actor abundant evidence of the advantages of heated air in all cases of combustion and I think Mr. Williams would dut the prevant of these works would correct several erroneous opinious he entertains on this subject, and that he would no longer consider these views contravy to all chamistry and the condensation of the combastion of the property forward of Science, vol. ii., p. 46(1) and, in fact, almost contradicts this opinion. The expression, "hostly air, on entering your ferrances through the small apareture, undergoes a very sudden and gest expansion, which must tend to promote the mixture and diffusion of the air and the gases, by the agistion thereby consistent," clearly preven that the Doctor considers this expansion (by heat) and considers this expansion (by heat) and considers this expansion (by heat) and considers the south of the former and the procession of the six occursed by the beated materials of the formers, in "possing through the formity property of the heat and the gases, by the agistion thereby consi

Hari-street, Feb. 9.

ON RAILWAY ENGINEERING.

TO THE ENGINE OF THE MINITED SOCIANAL.

No. —Nince the resummendation of the jury, which set on the bedies
of the suffertenate persons who lost their lives through the accident on
the Brighton Railway, near Cuckfield, to discontinue four-wheeled incomotive-engines, enough has been written on the comparative advantages
of four and six-wheeled engines to fill a volume; but the question, whether with a perfectly level rued, and berring the breaking of asles, either
description of engine would not be as seft as the other, has, I believe,
heen overlooked, or only touched on as of secondary cuntiferation—indued, one of the most elaborate writers on the subject has admitted, thei,

hy private Excepting scant and rectures of eria, have or a long country, led to the memord in act of pri-tatement:

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an 36 lbs. d mining ablings of d partire-workings atry, in a rabin man, be found.

r was 50 per cent, or more against longitudinal boarers ; indeed, the † the wo ber was 50 per cent, or more against longitudinal heavers; indeed, the cubes the engine could wish difficulty draw its lead upon a level over longitudinal heavings, it would trip up casily enough a rise of featness or altimos feet a mile where the rails were laid on cross sleepers." This startling proposition (for such only ome it he considered till the alleged facts are established "by the test of nonurate experiment") is followed by an attempt to explain the concess which produce so extraordinary an effect. They are these policies the cases which produce so extraordinary an effect. They are these policies of such a night, the ground is not as sold as the standarders; that would being, comparatively, a non-conductor of leat, the valid laid thereon their entire length cannot have imparted to them the higher temperature of the ground, and therefore the dew source settles and freezes upon them; whereas, on cross eleopers the rails have consumented to them the temperature of the ground, or ballast in which, to musclested to them the temperature of the ground, or ballest in which, to within an inch or two of their surface, they are imbedded, and "home," within an each or two of their surface, they are imbedded, and "house," says the writer, "the whole of the phenomena of inserior draught, arising from longer and greater all previous upon the houseful in the state. from longer and greater ellipserious upon the longitudinals; and, per-haps, at times of their being slopery, whose the [rails on the] cross s'appers are wholly dry and free from hour frost,"

Here is an examption founded on a supposition, which, of course, leaves the matter where it was. If part of the rule had, on the same ground, been faid on transverse sloopers, and part on longitudinal heavers, and the writer had discovered the rails on the farmer to have been free from hour frost, while those on the letter, in the same identical locality, were covered all over with it, it might have been inferred that the effect was regard all over with it, it night have over more or that the error was assignable to the alleged cause; but so no evidence of such phenomenon is formbound, and so wond is of a womer nature than earth, and so it is not many to conceive that in any night, "when the whole surface of the vagatable conserve was covered with a thick and hard hour frost, and the stegnant water with thick ice," any warmth could be impacted from ad to the rails, whether reating on cross sleepers or longitu bearers, we must look elsewhere to ascertain why dew should deposit itself and freeze quicker on iron rails laid on the latter than when laid on the former, if such be really the fact; indeed, to believe that freeze ground yes, and frozen hard too-imparts to from such a degree of temperature as would prevent water freezing on it, in impossible, though it is easy enough to conceive, when a mangoes out on a voyage of discovery, that four being laughed at if he returns so he went, and that, there force, he may down it better to find a mare's sent than nothing at all. If such a degree of warmth is radiated from the carth to prevent water freezing on iron laid on it, or with which it communicates, surely that a degree of heat would prevent the surface of the earth freezing a same degree of heat would prevent the defeate questions and calculations, I f could enter into such nine and delicate questions and calculations, I should feel inclined to think that the higher temperature of the atmosp phone, by day, avail have such an influence on a body of wood, especially fir, as to constitute it at night a warmer coat for iron than earth or ballest would afford, and that, consequently, iron would not freeze so appendily on another an the ground. As wood is a slow conductor of hest, so probably it retains it the longer when imbihad; and as its nature is, Have, to realet cold, preliaps in the same ratio ra heat, this consideration may have some bearing on the question. Mercurer, the from chairs which convert the rails are helded on the wonders cross sleepers at from these to are seet spart, which of commuteness—if the writer's hypothesis be correct—wis., that where there is no body of wood between the rails and the ground, as at the joints of the longitudinal hearers, to intercept ins of heat from the ground, the hear frost is not seen, m here an effect on the raile -- that is, cause the dew to be more succes of fracting at and may the points of support then elecwhere; but we have yet to fee a that it has ever been observed on any line where cross alrepen are used, that came parts of the rails were covered with hose frust while other parts were not. Wisether the phenomena national by the writer in his rule on hospitudinal bearers -- vis., the channes of base frust over and near the joints, while all the rest of the rails were completely covered with it, has been traced by him to the right cases, is at present immedered, all I here contend for being the uniform operation of acture is all

It is admitted on all hands, that alipportness from frost on the rails is a great will for which a remody should be cought, but to me it appears such will be cought to vain, as long as iron striving wheels are used on from rails; whereas, with womins wheels, on wooden rails, an easy remedy is at hand. A mixture of gas tar and fine cond, applied to the detering-wheels as they revolve, would set frust, ter, and wet, at defiance, and are the trouble of discussing the phenomena in question, and endeavouring vine the same of their existence; and, what is of real interest to the while community, insure the punctual arrival of the passengers and the mail bags in all commons at their appointed there. But the phonomens discoverer common be ignorant, that on cross alcopers the trains, in fronty weather, are after brought to a dead stand, or only progress at the rate of two or three motes as hour, though this important fact is not motioned

We are now brought to the consideration of the econd. alleged cans of impitudinal because expansioning 30 per rent, more draught then trans-verse absorper. It is " set;" and excluding somewhat marvellense may it be considered, that set should happen to be of precisely the same ob-atractic should be a been read and box; in fact, it come that water, whether is its natural or co-qualed state, is a determined enemy of longitudinal braces. "On a rule passing," even the mriter, " after rain, I charaved, rece under the call which featured the rail to the timber, that water was expressed from between the timber and the metal, as the engine possed, and re-alcorded the moment after. The same phenomenen, but is an inferior degree, occurred as the corriages possed. 'Hence,' as Mr. Gray abserved, 'abserver the cheefs are in our weather, it is a valley, and they are in a position of sum-tantly serveding a hill,' which, of returned, such honoreace the descripts.' We are instructed by the above question, that, at section someone, hongitudinal learness form a valley the entire length of the read, and that the engine and excringes are travelling up hall the wh distance; home the 50 per cost, extra drought! If this does not o House House, when even'd? But for an endoaven' to explore the tra-mondanc voltage. I present it will be established that under the shed at the terminant there is no wet, and, consequently, we willey there, but level greened, the commonweavent of the voltage being entered the abod. If exgreened, the commencement of the valley being autoids the shed. If ex-there must be a deament, which the philosophising arity ought in know someths on equivalent for his foreignesty rise. That descent, if any ot all may be the city the search part of an inch probaga and Boss we interest, early for the city; thousandth part of on much pressure on on minuth; and on, separately of railway speed, we seem get to the bottom of this formulable saley, which the philosopher represents in being most equally forward as the train progression, and which is, consequently, always weeking agricul a hill. The extravaguest represent for results from both the extravaguest represent for results from both the extraval and hip time making me discinctions between an iron and and pleas of extent, on which a wheel would previous a continued ridge, description as an iron rail, no each resistance can be experiented; and there execute on a best restincted being named without a corresponding mant, and claims beings as in a belown, and is comparable to a presen-tationing a pround all time wield were. When restances were projected. to, one or town produce where the origins of enteriors was stowagly devoluted, he exceed the decrease, that press would be greated by an explaining rations; and traff the extrement fails on arres slargest factories the expression, that a decrease on afterly at resource with prisons downgly developed, broaden't the de matelline the empressition, to be seen yet oil or their explothe edity they explained. Now the termine veilry, about the second edity about the second edity about the second edity. all they could possibly the in here crosseded to these, bothing but a substitute pathony. But is it set stronge that the entire should no have shought of positing his hand hown to securities what affect was produred when the trains present, on the said between his private of express
afterded by the come sharpers? If he had done this, he would been found
the deflection to be worth some their any that could rain between the suit and the institutional bearing is a lash they are fixed; and then might be have abjected a firming extracomment, that he had discussed the extra-politions plants in a too traine on each advisors asset with a disgree of contention contains of desiry duty distincted only by a competition with come superinterior content the entire length of the read. "When decime differ, who also it decided the content the decime of the content that the content tions area is supply difference between the designit, interestinates bearings and order incompany, " alternas the philosopher is " economical coupling opins this;" and arose wise supply resourced with the Milliand Corporate Malliant one pocould be be of the enem opinion. Pulpe: What even more can for a was suppose that was expite because, in which the rails are firmly and down, one by the event of any defection that rould in the eligiblest me the down his his track, the wet would small or expand pass

the wood, and if possible bring the rail into closes contact with it than before. Therefore, as between the rail and the longitudinal bearer, I deay the existence of deflection and undulation altogether; whereas on the barbarous system of cross siespers, the existence of both can be demonstrated to a frightful cattent. The chairs on these alsepers are continually working loose, producing both undulation and great danger; but this is not all. In wet weather, in particular, they are seldom or ever, as can acide be lossested from in the council at the proceduration and occlusion of collection of the control of the co not all. In wet weather, in particular, they are seldom or ever, as can easily be imagined, firm in the ground—whence undulation and oscillation too result to a degree that œust in every reflecting mind occasion serious apprehensions; but with longitudinal bearers, properly laid doom, neither of these evils can exist. An acquaintance of mine, a practical engineer, travelied some time since in wat weather on the S uthampton Railway, which is formed of these unneclentific supports, and on alighting at one of the stopping places, discovered the carriages to be splashed all over with shad; he inquired the same, and on being informed that it arose from the sinking of the slorpers, as the train passed over them, said (being fully alive to the danger) "then I will not proceed one step further with the train," which he instantly left, and completed the journey in the best way he could. If any of the Southampton Railway peuple deny this, his name shall be given.

Thomas Parken, C.E.

Moorgade-streed, Feb. 9. Muorgale-street, Feb. 9.

THE BUDE LIGHT-ITS INVENTOR.

Sta. —I shall be much obliged if you will obtain from your correspondent. "J. J.," the date of the paper referred to by him as intrusted to Dr. Lesdeer, and from which the Bade Light is said to have originated. If this is furnished I will make you immediately a further communication

Landon, Feb. 16. ermation required by our correspondent will, doubtless, appear in

ON THE CLEANSING OF ENGINE PLUES,
TO THE EDITOR OF THE MINING JOURNAL.

Sin,—All who are cognizant of such operations must be aware of the
rnicious effect of one's exposure to such beat and dust. Way might not the engine be made to compress a few strokes of air into a chest for the purpose of passing a blast through the flues? This, at any rate, would clear off the dry dust, and render the places less unpleasant to enter, in cases of leaky boilers; otherwise, where there is no leak, I presume the faces need not be entered.

John Phillips. Tuckingmill, Feb. 16.

EXPLOSIONS OF STEAM-BOILERS.

Sta,—" Ignorance is always presumptuous," but an idea seems to be entertained that none but practical men should hazard an opinion on causes and effects—indeed, this has been not merely insimusted, but even asserted by some of your correspondents, whose communications I have read with much pleasure; not, it is true, in plain terms, but in gibes and estires from "operative engineers!" Practical men, as such, are, of course, only mere insitators of that which has been found by themselves as others, he conceives to be practically. The moment practical men er others, by experiment, to be practicable. The moment practical men deviate from the established mode, before actual trial, they are themselves but mere theorists; for that which, being new, is made, or conceived and represented, by design, must exist in the imagination of the "visionary sefera its existence as a tangible reality or scientific principle.

Having anceceded in discovering an occult principle with respect

nish water-pumping atesm-engine-viz., increase of the quantity raised by the sudden expansion of steam, and the slower motion of the descending plunger, and consequent comparatively slow ascent of the column of water (though unschnowledged by those who have since written scientifically on the subject)—may I be allowed to centure another taggestion as an humble inquirer? \* Your paper is a sort of suggestion as an humble inquier? A your paper is a cort of safety earlier, through which we may let off our water steam, with only an siretrie shock now and then through the eyes. But, to the subject. None of the theories respecting explosions appear to be satisfactory, especially to your respected contributor, Mr. Trugnakis. Nearly all your correspondents on the subject (except Mr. Williams, on ecdiment) assume, that there is avariably, when such accidents occur, a deficiency of vater in the boiler, to be found to the subject to the safe for the safe through the safe for the safe to the safe for the safe through the safe throu invariably, when such aucidents occur, a deficiency of mater in the boiler, it is a fact well known, that there is frequently too much eater, which is even forced into the piston. Whatever the pressure of the forcing pump, from its comparatively small dissensions, it is still, sided by the leverage of the beam, enabled to continue to the boiler a supply of eater the length of the stroke of such forcing pump. Water is incompressible, and safety valves have been "gagged" by coheston, &c. Any boiler, full of water, may be burst by fire, if there be no eccapement. Suppose a boiler to be full at the moment of the stoppage, or the piston-valve to be closed before the stroke of the forcing pump is completed, might not this concreous pressure rend the boiler, or force a hole, or cause a break in an overheated plate, the steam shout which might not rise as in a boiler an overheated plate, the steam shout which might not rise as in a boiler and overheated plate, the steam shout which might not rise as in a boiler and overheated plate, the steam shout which might not rise as in a boiler and overheated plate, the steam shout which might not rise as in a boiler and overheated plate, the steam about which might not rise as in a boiler and overheated plate, it is objected by an increased pressure of sizem, if piston would be powerfully affected by an increased pressure of steam, it explosions arose from pressure? When the temperature is low, the filling of the boiler is, perhaps, not a matter of so mach moment. Is it not, also pensible, that, when the boiler is quite full of water, the culture so-monutates in the plates, so so to weaken their adhesion or travelly? It may be objected, that the internal table could not be reat, bufged, or broken, by what is, to it, external pressure; perhaps not, if the temperature were equal, which is not the case. The fact of men being burnt or scalded to death, to be buried under the silent system, like those who full away from ladders, &c., in the absence of reporters, who do not wish to hash the matter up—as in functic asylume and gasts, with hand mills, one of which (Bodmin) the writer abolished by three anonymous letters, doubtless, supposed to be the production of "a golden image." Though noblicas, supposed to be the production or a manufacture of science, like other students, are rather trascilde, when we tree in their tors, they will, perhaps, without seculing me from existence A. T. J. MARTE. deign a roply, Procuses, Jan. 29.

REMAINS OF THE PURTER ACRES IN PRESAND. - The following in Reways no resp I curve year as I Jana, and, ... The following notice of the discovery of some reasons of the inhthy assures in Irrhand is extracted from a latter by James Breez, jun., M.A., F.G.S., dated theffast, Janusey 20 :-- Since that time (May, 1931) detached sancian vertebes have been found in various places, in bode between the chalk and new red sanciance. These were generally as small and badly characterized, that I found it difficult to determine the grands to which they belonged. Within the last few mounts, however, some well marked counting have been discovered; they were found in the lower green and of the work of the last few mounts, and Carricklerges. by Mr. Wes. Young of this town, and consisted of a large dorsal verte-and come amales once from the extremities, but in such a position condered it doubtful whether they belonged to the same individual. T agulard to be vertables of an lebilitescense, by the co mere easily represent form of the body, the double concerty of the activalating confuse, by the small pits on each side of the spinal count, and by the actiudes for the attackment of the believence vib. The stehes is an less and a balf, and the discounter of its in largest So for an I am aware, thinks the only mersone gut recorded of the disdusery of inhthrosomers remains in this country

FORRES INTERIORS & PROPERTY AT DIRECTOR AT .- A paper was become, by Mr. John Quebett, in the Northern Sons, of Infancial Asiana's, analogous to those a to a Final State at Einberrack in America; " is which the alieding to the discoveries of Findasce Encenberg, in this in which the author, altspirety, preceded to conties a stratem of front entrealment record tished, recordly descript by Professor August, underlying the city of Kush-mened, in America; it condition beneathful appriment of nationals. Action-cycle, gallimedia, do., do., i but the most remorkable from it a circular with markings may air silar to those on the back of an engine-tar watch. On appending the usually mainless which had been wealed from some anaphytics brought home in spirit by the northern expedition. Such a Capt. Persy, in 1872, the nation do noted may be then are promade micro in it visely analogues to those occurring to lamble in the Butto-oved name, and amongst tissue the region become dome; these last octor in the found state singly, any racely to make, and some dealers have across, as in their surmed agrace; but the interdigations of the retire term ind bits to committee them as a species of birefer, and many, built with and midwart markings, are to be desced to the recent state, an instance graceless contain between their values. The analysis specimens were often aren to be adjusted to diagraments of sea, wend by a small street or projects. The paper was accomind with specimens of the assistativates, and at . Illustrative disgrams.

PROCEEDINGS OF SCIENTIFIC BODIES.

GEOLOGICAL SOCIETY OF LONDON.

GEOLOGICAL SOCIETY OF LONDON.

At the meeting of this society on, the 5th ult. (R. I. Murchisea, Esq., President in the chair) the following papers were read:—

1. On Fusuil Bones found on the Surface of a Raised Bonch at the Hoe,
near Plymouth." By Dr. Moore.

In our reports of the meeting of the British Association at Plymouth, in
August last, an abstract will be found of a paper by Dr. Moore on those fossil
boncs, and a notice of the objections which were made to the author's infersocs. In the memoir read to the Geological Society on the 5th of January,
the substance of the former communication is given, but its principal object
is to prove, first, that the bonce could not have been derived from the emptying of a cave, hearing all the evidence of having been deposited where they
were found at a very remote period, and probably image before they could
have been affected by human agency. Secondly, that the brack with associated bonce could not be a diluvial or drift accumulation, because it resembles, to character, a modern beach, and contains marine shells, and because

have been affected by human agency. Secondly, that the breach with associated boncs could not be a diluvial or drift accumulation, because it resembles, to character, a modern bench, and centains marine shells, and because the bones were found not io, but upon, the deposit. Thirdly, that the bench, id not result from glacial action, as there are no indications of it in the neighbouring districts. Leastly, he maintains his former views respecting the brack, having been raised above the level of the sea, and at a period about, or probably more recent than, the time when the animals, whose remains are found apon it, disappeared. Appended to the paper was a note on a mass of lime-atons perforated by irregular cavities, considered by Dr. Backland to be due to the action of smalls, but which Dr. Moore conceives were formed by phointeds.

2. "An Account of the Contortions and Faults produced in the strata undermeath, and mijoenat to, the Great Embankment agroes the Vailey of the Breat, on the line of the Great Western Railway." By Mr. Colthurst. The vagetable sail, on which the embankment was thrown up, rests on a stratum four feet thick of brown or alluvial clay, under which is a bed of gravel varying in thickness from ten to three feet, and the whole reposes on London clay of the usual characters. The surface of the vailey at this part gradually slopes towards the Breat, the difference of level between the southern or more distant side of the garthwork and the river being about theaty feet. The height of the embankment is fifty-four feet. On the night of the 21st of May a cettlement was first noticed, and in the moraing the foundation was discoussed to have given way, and a large mass of ground, fifty feet hour, and fifteen feet wide, to have protruded on the side towards the Breat. During the four especialing months this mass continued to increase, and the disturbance to extend, so that at the and of that period the surface, to a considerable distance from the base of the embankment, had assumed an undulated outlin feet, was a large crack near the top, and on the side opposite to that in which the foundation had yielded, but alanting towards the same point. Passing the foundation had yielded, but alianting towards the same point. Passing over the effects gradually produced during a period of nearly twelve months, at the coal of which the total subsidence had exceeded thirty feet, and the awaless ground, at the bane of the embankment, had attained an average height of ten feet, with a range parallel to the earthwork of scarly 400 feet, and an occasional horizontal displacement of fifteen feet, the author proceeds to describe the nature of the curvatures and other irregularities produced in the strata, extending 250 feet, or from the foot of the carthwork to the Brent, the hank of which was forced five feet inwards; but it is impossible to reader the account intelligible without the aid of diagrams. The remedy applied by Mr. Branel was a supplementary embankment or terrace throw shown on the hank of which was forced five feet inwards; but it is impossible to reader the account intelligible without the aid of diagrams. The remedy applied by Mr. Reunel was a supplementary embankment or terrace thrown down on the protruded mass, and it has proved effectual. In the account part of the page the author dwells upon the magnitude of the disturbing effects thus produced by human agency, and asserts has belief that many of the distortions, visible in the so id strata of the earth, may have been produced by the effects of superincumbent masses thrown down upon them by the ordinary operations of sature; but while he advocates the explanation of certain geological piscomena by means of pressure from without, he does not deay that many, and mure especially the most considerable irregularities which occur in the attracture of the earth, may he assigned to other causes.

3. "Notice of the occurrence of Fossil Prantic like Plantic Cizy at Bourse-mouth, Hants." By the Rev. P. B. Brodie.

To the east of Boursemouth the cliffs consist of white and yellow sands belonging to the plastic clay, and as they range along the shore they increase in height, beds of clay full of vegetable remains appearing under the sands. About half a mile from this point they are composed of alternations of white, groy, and yellow sand, overlaid by strata of clay divided by this layers of regetable matter. In a hed of white and ease the middle of the cliff are timperations of ferms; and a layer of sandy clay, abounding with beautiful vegetable matter. In a hed of white and ease the middle of the cliff are timperation matter. In a hed of white and ease the middle of the cliff are timperations of white a farther are alreaded by the author to belong to genera of a warmer climate than that which now prevails in Great Britain.

4. "On the Montha of Ammonites and on other fossils found in the Oxford Clay, near Christian Maiford, on the line of the Great Westers Railway."

at Bettain,
On the Mosths of Ammonites and on other feasils found in the Ox.

iny, near Christian Maiford, on the line of the Great Western Rullway." By Mr. C. Pearce.

The section exhibited at the point where Mr. Ponce obtained his specise was as follows :-

Gravel

Brits of laminated clay, alternating with layers of sandy clay, clisify compered of bruken shells

he functile described in the usper were procured from No. 3, and consisted for sun accears, which the author conceives inhabited the dead shells of the moments, and to which he applies the generic names of Ammonicular, of ammonits and to which he applies the generic names of Ammonicular, of ammonits with the mouths beautifully amountle, and to wrice he approx to generic names or amountle, and to wrice he approx to generic names of amountless behaviously preserved; belomatics and an allied genus, for which he proposes the same of Releasantenthia. Of many of these feasile detailed specific characters are given, but, as they do not admit of abridgement, we must condeas our action to the author's remarks on the structure of the mouth of the samewinte. Mr. Pearce is of opinions that the lip or perfect termination of the specific name at different single is almost every species, and that it has a simpler form in the abilit or full grown shelithan as immature individuals. For several years he has remarked that specimens of what he considered to be full grown assumption with a perfect lip, and a cently straight or slightly waved sample, whilst enabler, and as he conservers younger, abelia of the same species, powered in many mother set attended early should be the beauty species, powered in many mother error produces, because it he same species, powered in many mother error produces, because it is not produced to the facility but the grown of the same species, powered in the facility beauty of the sheet, those processes, he is of opinion, were successful to growth of the sheet, those processes, he is of opinion, were successful to growth of the cannot fill the facility from a successful the generalize belonging to various runks, Mr. Pearce infers that in the young shell, provided with interal projections, the animal filled not merely the whole of the lost chamber, but extended pround it, and thereby guarded the processes from injury, and received support the animal filled not merely the whole of the host chamber, but extended by your it, and thereby guarded the processes from injury, and received support or protection from those. On the contrast, the lost is showner, of the master of the host of the contrast of the cont ini manatan.

# INSTITUTION OF CIVIL ENGINEERS.

The proceedings of the coming commenced with a part Lundon," by Mr. Richardson, from which is appear the Piet of London, by her, the the present contary, the personal contary, the personal contary to the present contary, the head of ferrige produce was finited to one layed quay, by london to need the Tower, B. existed, but they were in each a bed entry at they offer set lead little assistance to commerce. The first is the construction of floating docks was by Mr. Sharp, in 1772. Both two laid, in the year following backs was laid, in the year following. Diocks were projected, and in 1888 the East India Diocks seem. All the sucks were intreasted to Mr. Raiph Walker, as a took west tastic Drocks, Mr. Welliam Jessey was associated a payer sensitied, at most integrit, the resenses for additional across seasons before the supplied, and the commerce of the substructions in the training compained, and the commerce of the substructions in The fi trills halder of the inverses of the problem and toppings of the pert. between the prace 1700 to 1700. It not back the year transprehensive everes of decire for all hinds of shipping, and the of the garage, extractly value of a ser-A payer or Mr. Yawrelland de-

described the leased Ducky of Tuor Loseon, in the Gen

to Legisses to Fiveners, of a Weigh in original, by M. Hander, of a Weigh in elegistic, that one unions from A weigh-alignments, that one appropriation of on intiminal electricist, that any extenses from it around according to a leaf to a leaf to see the second according to the second had resulted. The drawings appeared very resultation and it were such an world he seefs, to the requirer county d is similar A very univerself convertible consend between Dr. Farah and others, on the chemical changes undergone by the in

Fig. 11.-The paper root were-" As Assess of Chelana Mr.

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Sinice," by Mr. Budd, the principal perclineity of which appeared to consist in making the centre of motion of the sluice doors so much above the centre of gravity as greatly to increase their freedom of action.

"On the Mode of Obtaining Foundations for Bridges, &c., in Sandy Soils in India," by Captain Goodwyn.—The method is very linguistic and the neighbor of the constant of the fact, which are consecutively built upon the surface, and the soil then excavated from within, similar to the process pursued by Sir Isambard Branel, in preparing and sinking the shafts for the approaches of the Thames Tunnel, except that the Indian shafts are only three and a half fact interior diameter. They are frequently with the instrument for excavating, and frequently remain full a minute at a time under water. The shafts, when sunk to an uniform level, are connected by arches both ways, and the edifice is erected upon them as spea piles.

Mr. Wilkinson's account of copper sheathing for wessels, was a paper of too much value to have been read at the latter part of an evening, an it gave an historical account of the first recorded nace of copper, the gradual inveduction of that metal, and its several alloys for sheathing, with a list of all the patents for metallic sheathing, which might be consulted with much idvantage by all those whose attention is directed to the subject. Sir Humphrey Day's protectors, and the experisents upon them, were also minutely described. Altogether, we have van't heard a paper displaying more careful research, on a most important subject.

## LONDON ELECTRICAL SOCIETY.

At the meeting on Tuesday, the 13th instant, the papers read were—1.

"On the Electrical relation between Plants and Vapours." By Mr. Pine.
The writer of this paper follows up his previous opinions upon the manifold operation of electricity to facilitate the deposition of vapour, and miding the functions of vegetation. He relates several experiments both in the field and in the laboratory which confirm his opinions. There are, amongst these, some interesting cases given of the relative electric condition of cantisumry and of moving fogs, of vapours near, and of others at a distance from vegetation.

some interesting cases given of the relative electric consistence or consumary and of moving fogs, of vapours near, and of others at a distance from vegetation.

2. "Parther Observations on Electrotype Manipulation." By the Secretary. Referring to the difficulty often felt by experimentalists of inducing the speedy deposite of copper over a large surface of black lend, or over a surface in deep relief, it is advised that one or more pieces of binck lend, or over a surface in deep relief, it is advised that one or more pieces of binding wire be twisted round the anim wire, and be sufficed to implage upon any part of the surface uncovered by the deposite; by this means the whole surface will very speedly be control. The rest of the paper was devoted to a description of "electrolace," a novel, but pretty, application of the assume universally applicable science. The basis is not, prepared according to the usual plans. A few hours action so evers it with copper, that it scens converted into that metal. Specimens were exhibited, which were much admired. It opens a new and extension of this art to the production of those delicate and chasts ornaments, and fancy articles, now constructed of perforated cards. &c. The lace is read by plated; nor is the application confined to this article alone, but may be extension of the various gauzes and delicate fabrics with which the market abounds.

3. "Nitrate of Sodn for Voltaic Batteries." By Mr. Mackrell.

From a series of experiments, the writer of this is led to prefer this salt to sulphate of copper or to bi chromate of potassium; he details a series of results which well deserve notice, and, if succeeding lovestigations should confirm the opinion deduced from this, the first employment of the salt, a vast gain will be made in the expense of exciting constant batteries.

Mr. Wecke's 's "Register" for January, drawn up with its customary accuracy and patience, was then laid before the society.

## MINING CORRESPONDENCE.

# ENGLISH MINES.

ENGLISH MINES.

BOLKBUSH MINES.

BOLKBUSH MINING COMPANY.

Feb. 14.—I beg leave to inform you that the hole is the 110 fathoes level west is six inches wide, and producing stones of ore; the erosa-cut, at this level, we expect, will be communicated to the level deving on the north hole, in the course of a few days. The hole in the 100 fathous level west is still about one foot wide, and worth 141, per fathous; in this level, cast by Wall's shaft, the hole is four inches wide, and unproductive; the hole in the wines, sinking below this level, on the south part, is ela inches wide, with stones of ore. The hole in the seaters stopes, in the back of the 100 fathous level, is eighteen inches wide, and worth 351, per fathous; the hole in the western stopes, in the back of ditto, is twenty inches wide, and worth 361, per fathous. In the minety fathous level west the hole continues about four-teen inches wide, and werth 461, per fathous; the hole in the castern stopes, in the back of this level, is fifteen inches wide, and worth 355, per fathous it lie lode in the western stopes, in the back of this circle, in fifteen inches wide, and worth 350, per fathous. The lode in the stopes, in the back of the eighty in those level; registeen inches wide, and worth also of the eighty in those in the sate wide, and worth also also per fathous. In the sixty-two fathous level, east of Wall's shaft, the lode is ten inches wide, composed of sounds and spar, with a small proportion of ore; in this level west we have commesced a cross-cut from Hitchen's shaft to cut the north lode that has intely been intersected in the said shaft. The tribute pitches are without important alteration; other parts of the mine wet went-inced are much as last reported.

Fig. 14.—I beg to inform you that we have had some improvement in the

are without imported alteration; over your part of the part week (two and a half fathous) being worth 10t, per fathous for copper ore. In extending the cross-cut morth, at this level, we have intersected a small portion of yellow ore. The ground is this cod still continues to be rather hard and wet. We have no alteration in the tribute pitches worthy of remark.

Jakes Ninkis.

VERTOIL MINING COMPANY.

Feb. 14.—The lode is the thirty fethem level, east of Williams's shaft, is eighteen inches wide, and unpreductive. Propellas's lode, driving west of John's shaft, at the thirty fashom level, is twenty inches wide—tribute ground for copper; dittin, deving east of John's shaft, at the thirty fashom level, is also taches wide—tribute ground for copper. The part we are driving on of the Mine pack lode, east of Morcous's shaft, at the adit level, is eighteen inches wide—tribute ground for tim.

H. WILLIAMS. J. MORCON.

If. WILLIAMS. J. MORCOM.

FIRST STILLS MINIMO COMPANY.

Feb. 14.—Williams's Shaft—No lede broken slace survey day. Sixty Fathens Level—Lade three and a half feet wide, two first of which is one of good quotility; in the weaters could to find is five feet wide, eighteen inches good ore in the eastern end; in the western end the lede is as feet wide, nor three global, but conver in quality. First Fathers Level—Lade two and a half feet wide, eighteen inches good ore in the eastern end; in the western end the lede is an feet wide, nor three global, but conver in quality. Forty as Feshems Level—The lede in the east end is improved, but the western end remains much the same as last work. James's Shaft—Lode ince and a built feet wide, hindly, with stance of our. Forty Fathers Level—Lode in the wince two feet wide, and ore; necking new in the cross-cut on ensieter end. Thirty Fathers Level—Lode righteen inches wide, six of which good ore, and improved stace hast work. To east y Fathers Level—Lode righteen inches wide, six of which good ore, and improved stace hast work.

To east y Fathers Level—Large lode, and kindly, but does not produce much the covered and covered and covered the covered water.

He per fections. We afterwise to any other part of the ceine. B. Lean.

Fed. 14.—Is the 15th Subtimi level the look is constructed with probability a small proceeding of one. Is the 115 Subtimi level the look is eighteen factor in which, removement of count and not spare, incremented of which, removement of count and not spare, incremented of which, and producing panel words. Is the strengthy-free suit the look is two first words, remogness of capet, manufactory of the look is two first which, and producing good words. In the strengthy-free suit the look is two first which, and producing good words. In the strengthy-free suit the look is two first which, and producing good words. In the strength-free suit the look is two first which is a constant that the look is the look in a constant to which, and producing good words. In the strength-free suit the look is now factor, and for the look is to think. In the severe, is dee could like look is a should almost a word to the first for the entire of the look is now factor, and the look is look in one factor which—every first successful for successful for the look is look in one factor which, but at present power. In the flower of countries, one of the constitution of the constitution

AIDWAY AND COMMERCIAL GAZE.

REPRICE COMMERCIAL GAZE.

Feb. 14.—Our prospects at the sixty fathous level have very much improved within the last few days; the lesis is the south end in from it's to origit inches wide, realy throughout. At the fifty fathous, the inde is the neith end is six inches wide, easily throughout. At the fifty fathous, the inde is the neith end is six inches wide, compared of spar, peach, and a small pertion of lead; going cart on the copper leade, at this level, the ground continues favourable for driving; the hole is 1 ft. 6 in. wide, of spar, peach, mundle, and very good stones of ore. The men have communicated the rise with the forty fathous level, and will be insmediately put to drive nomb on the lead leade at this level (viz., the fifty), where the leade is from fost to six inches in width, very good for silver-lead ores. The toole is the nouth end, at the forty fathous level, is from eight to true inches wide, good saving work; going morth, at their level (viz., the fifty), where the leade is should aix inches wide, good work for lead ores.

CORNUBIAN MINING COMPANY.

Feb. 14.—The couth lode, at the dity fathous level, is driving east of the engine-shaft, continues regular, but almost inspredictive; in the last week we have breaken some steness of ore. The western end, at this level, on Chiverton, has much the same opportmer as reported to you lant week; it is a large and exceedingly promising lode, producing good stones of tend at times. The rise, is the back of the fifty fathous level, in progressing specility, and, when completely, will greatly ventilate the western part of this level, and, as well, anothe us to work some of our one ground to much but or advantage. The ground is still good in the thirty-two fathous level, driving oast of Clifford's shaft, the merth inde presents a very kindly appearance, being large, and impregnated throughout with rich velos of ore. The sinteen fathous level, grounds, to communicate with the old weatern shaft, so called, in the outer to lode,

# MINING NOTICES.

(Under this head we purpose collecting such paragraphs as may appear in the arovincial and other Journals, having revireace to discoveries and improvement in mining operations at home and abroad. It is hoully necessary to observe, the we must not be considered to admit the correctation of the information conveyas which, in too many instances, requires cautions investigation—the tanguine on poetations of parties in some instances, and the want of honesty is others, throwing a degree of responsibility on a Journal in giving publicity to reports, which we do not intend taking upon ourselves.)

Mangawers,—An abundance of this mineral has recently been fone-near Witmora, in South Australia, which has been automitted to experiments by Messra E. Davey and James Weston, who state that "the mineral con-sists of a black substance, diffused among crystals of quartz. The quartz, in some places, is rightly tinged of a greenish cholor, which appearance proves, on examination, to be caused by a vegetable matter, apparently a mi-aute species of moss. The black substance is exide of mangauese, contain-ing some oxide of from and alumina, with the silien derived from the quartz matrix."—West Brilow. Successive Markino Orbitations in Spain.—Mining in Spain is in-creasing to a remarkable degree; mineral veins have been discovered in al-most all parts of the country, and many have been worked with success. In Marcha and Andalusia the mines are asserted to have been very productive. A jointesteck company has been formed at Palencia for working the copper and coal mines intely discovered in the covirous of that town.—Sun.

## MINE ACCIDENTS.

Wheal Virgin Mine.—W. Dennis medfwith an lajary whilet at his employ at this mine on the 23d of January, of which he died on the 1st inst.

Ninnis Hheal Virgin, St. History.—Samuel Backer received such severe injuries from an acc dent at this mine on the 3d inst. as to occasion his death.

George Pil. Great Leading.—An unfortunate pilman fell down the shaft of this pit on Wednesday wees, and was instantly deprived of life; he was appearable the shaft, arrying a lighted cadele, which he was endeavouring to protect from the wind, for the purpose of descending to his work, and while his attention was thus sugged he unconactously stepped into the frightful abyes.

while his attention was thus sugages he theometrously stepped in a byte.

Wooderful Preservation.—We learn from Le Commerce that a miner was working on Wednessiny in an shandoned coal-pit, when the earth gave way and buried him alive. The miners of the neighbourhood, on hearin, of the actident, went to his assistance, but did not vacced in catricating him until the Sunday evening—the man was still alive I He has not yet been asked how he managed to support existence, but in his peckets was found some to-bacco, with which he an doubt satisfied his appetite. He is still in a dancerous state.

gerous state. Whiltington.—On Friday week a serious neeldout belsi Mr. Edward Marr, while in attendance at the collievies belonging to his father; the workmen were employed in lifting the pumps, but, owing to some accident, the caption studiedly rim back, and one of the areas struck the unfortunate young genticenson on the side, breaking three of his ribs, and otherwise severely injuring him.

Ratherplen.—On Wednesday us old man, named Sinclair, by the fall of the roof in own of Captain Ferrie's pits, near Hathergien, was so severely injured that he survived only a few minutes. He is the sixth or neventh number of the name family who has met his drath by similar accidents in each pits.

venth member of the same family who has met his drath by stoular accidents in coal pits.

St. Vincred's Rocks.—A dreadful excident occurred at Bt. Vincent's Rocks, on Thursday week, to a poor quorryman, named Charles Parmus. He had placed a quentity of gaupowder in a bore, for the purpose of blasting this rock, and was in the act of roomning some waiding upon it, when the irents which he was usung for that purpose came in tounted with a Biot and summed ignition of the powder, by the explosion of which the pose follow was driven with dreadful wholence to a considerable distance from the spot. On extensionation is was found that a given quantity of powder had been fired dutte his eyes and face, and that his body was averety occused and facerated in many parts.

into any parts.

Parksmorth Mine.—On Friday week on accident, which may be attended with sortion consequences, took place of Parksmorth Mine, Mr. Just, Panwith; a year man, anneal Caraca, which angaged about a superists, by some manemoutable steam; fall buck wards, when a heavy tron-bor fell from a considerable height, and struck him is the eye, vatting the systall is two parts and scrimming injuring his mose; great from are also entertained for his other eye.

old executely mysteric videor of the cold, all, Jeasph Oliver, a collier, deep House Pit.—On Thoroday, the 20th all, Jeasph Oliver, a collier, wast but the Shap-House Pit with a lighted candle, and was decadfully burt by an explosion of fee-damp. We conderstand (easy the Magfield July) that another explants a took place on Tucaday last, when four sten were burnt, but not so accessly as to prove fatal.

The product make the port fathers in the forest product make the port fathers in the father of them like the great growed, and the time true forty four east to he for the forty forty for east to he forty four east to he forty forty four east to he forty four east to he forty forty

WORK PERFORMED-BY STEAM-ENGINES,
EN JAMEANY, 1943.
Token from the afficiel duly paper of Mr. Tromas Lean, of Maranios, Cornwell
e simulator single; of for double; in. for inches.

Mines.	Engines.	Maryles In cyllaster.	Leadper	No. of strokes p. salecute.	Consumption of Consum	Pounda listed 1 foot high by a bashol of coal.	Average quan, pi water p. min.
		Fest.	Lbs.		pr lies	No. of London	ins. gal
Ditto	Bastern 96 in. s Haire's 60 in. s		15.0	9,50	paid	44,432,537	1394,7
Gt. W. Fortune	G.W.Fort. stin.e Wh. Pron. sein. e	1.7	20,0	7.8	-	Seconds 177	054,6
Ditto	T. Downs 70 to a	COK !	-	2000	700	Williams	1986
Ditto	Wh. Friends, 10 a Owen V. 70 m. s	10,0	10,8	9,40	-500	44,200,630	796/8
Ditto	Gwallon 36 in. s 38 in. s	6,0	14.00	3,0	- Gra	94,417,500	-
Wheal Virgin	60 in a	10,0	13,0	2.0	2006	\$1,0/0,091	93,8 465,8
Religion	00 to. a	9.4	10,0	8,62	2124	54,486,608	966/6
Duffield	90 to. a	100	100	1000	100	-	-
Carrier Cons. Wheal Julia.		10,0	10,1	3,64	4160	46,460,055	MALJ.
Oing-dong	30 in. a	6,0	17,0	4,70	874	30,230,248	10,5
Botslinch	New 40 in. a	0.0	10,0	3,1	246 246	39,797,719	81,8
Balleswishing	24 in. s	2,0	15,8	NA.	590	36,637,798	80,0
Great Work	Sime's iti in. s. W.Brenge iii in. s	0,0	11,19	4,5	1196		M.070
Ditto	Leed's of in. a	0,0	14,00	10.R	2002	70,649,410	3740
Whenl Vor		10,0	16,8	9.0	4478	03,529,500	nissa
Ditto	Woolf & Alin. #	8.0	0,01	9,9	3386	45,126,117	1
Ditto	Pomissio ce in. a	9,0	19,0	6,8 7,1	1664	\$1,645,498	615,0
Dunstanville.	60.10. a	100	100	500	1000		1916
South Roskes: North Roskes:	W.Chance 00 in. a		9.87	6,1	1004 2204	53,935,400 56,445,604	145,6 351,6
E. Wh. Crofty	Prevenson Min.	10,83	11,0	8,28	2266	65,004,010	856,7
Ditto	Dusinance M in.e 76 in. e	9,0	15,8	2.3	need	90,031,100	383,4
Wheal Jewel .	300 Eas. at	. 8,8	15.0	6,8	1176	40,354,164	136,8
Foldice W. U. Wood.	Millianse's St. a.	10,0	7,14	12,8	0944 2530	26,045,500	997,8
Hallenbengie	Vice's 70 in. s	10,0	.2.0	8,5	1710	66,547,418	1000,0
W. Braucharty	Honcow, 48 to. s. Wostern 36 in. s.	7,70	11,27	7.8	1276	\$2,644,246	
D4160	Powning's Min.a.	8,8	16,3	2,6	1460	88,273,829	1903,00
Wheal Uny	76 to. s	10,0	10,87	7.8	1172	60,0: 6,026 50,180,426	394,0
Ditto	Minns, 50 in. c. c.c.	9,8	14.28	6.0	999	90,000,070	608,7
Eineroft	do in. e	9,33	7.8	9,0	1130	81,410,158	175.0 176.0
il. Wh. Barrel	40 in. s	8,0	18,4	4,0	1300	34,505,427	156,4
Ditter	Taylor's Shin. o	-	100	-	950		2000 2000
Ditto	Pearce's 65 in. s	.000	-	2000	1000	bone	900
Ditto	Woolf's 10 in. s Esweien's 10 in. s	200	1000	(000) (000)	200	princips	non- unk
Ditto	Job's 45 In. s	-	.000	-	500	Sheep.	100
Ditto	Paylor's 45 in. s Cartoso's into. s	9,0	11,45	7,0	9664 5193	91,999,519	150
Intto	Cisiton's om 30 to	9.0	16,0	8.8	823	BR. \$10.537	9440,0
Ditto	Louising set in a	10,0	13,5	10,0	2415   8508	64,540,500	
Bloome Bridge	\$40 tos. #	10,0	8,8	8,8	9/0	56,466,216	885,0
Cutted Hills	70 in. s Williams' so in. s	10,0	9,5	6,00	1920	61,456,796	418,500
Ditto	Obl., by to. 4	8,8	6,65	6,10	0.10	+4,950,700 }	000,14
Polheron	on in a	10,0	14,50		1200	45,086,044	998,45 996,6
hartestown U	60 In. s	9,0	16,8	2,63	1805	45,200,500	0 7.01
	Union, 40 in. c Austen's no in. s		10,02	2.54	2410	45,795,971	446.0
Poignoth	66 (as. #	9,0	8.9	985	700	SHOOTS.	1 10

# STRAM-BROINES STAMPING CRES,

The second secon									
Mines.	Engines.	Struke to cytin.		Av. weight of beads, lifters, and water cot.		Possess black trios high by a bush-orecan			
Balloowidden C. Charlestorm U. Wheel Elity Care Brea Tuseroft	56 kg. • R. 60. • R2 kg. • R2 kg. • R3 kg. •	9,0 9,0 9,0 9,0 9,0 10,0	90 00 70,0 80	Line, soline school prints (disp) (exist)	94 line, 1890 684 *** Tose Ispil	69,600,700 est,600,400 45,109,800 74,700,000			

Balksrwicker, Eastle; Charlestown United Mines, Darlingfrin, Cark Stra. F.; Sinos, Hercrift, W. and J. Went; When Vor, Sicinete; Velt. Sects Unpublis, Eastle.

# WHIM-ENGINES DRAWING ORES,

Mines.	dingtons.	1	A 100 H	An annual of the state of the s	Preside degree ope feed high by a bushed of chief.	Microse writing & Side drawing from 1 the fation by a bound. of count.
Cooked Misses Shirts Lakto .	Topice's obstratifs kes s's Horsking's thres's	9 mil. 6 mil. 8 mil. 6 mil. 1 9 mil. 6 mil. 6 mil.	11176 4011 10114 10114 11114 11114	740 700 800 510 1400 610 600	10,510,435 53,000,000 15,452,700 19,555,500 16,191,750 53,750,760	60,1 67,0 76,0 98,0 68,0 68,0

Entitiems, Hacking and Leath: Charlestown United Misses, -- Darlington, Fuwers Consols, W. Wood, Wheel Trawnson, T. Taper.

The consider has been not of order 40 Winns Unity Wood. The water has been be
of Teactori part of the founds.

A readons in the Report for Decomber—For head of Some Series and Ex.87 dely,
2. not now. The oth have been electing all Problems Employ, torouther the dely
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remembered to be found of cost, and lifted 41, on the hous of water hos highways for
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CURRENT PRICES OF ENGLISH AND PORRIGN PUNE CURRENT PAICES OF A macin Messay, 80; \$ pitte Associate, 80; \$ w 24; per Conte, 90; \$ denced 4; per Center, 90; \$ denced 4; per Center, 90; \$ my Assign 50; 70; and Mords, 10; 70; schequer Bills, 20; 72; pm. igian Rouds, 5 per Cent., 102; 3; add, 5 p. 7 Cent., 65; \$ add, 5 p. 7 Cent., 65;

BH AND FORKEIGN FUNDS.

Daulch, 3 per Cent., 87\$ \$

Dutch, 7\$ per Cent., 82\$ \$

Dutch, 2 per Cent., 192\$ \$

Portuguese, 5 per Cent., 22 \$

Diffe, 5 per Cent., 19 \$

Randon, 5 per Cent., 19 \$

Randon, 6 per Cent., 72 \$

Mexican, 6 per Cent., 72\$ 3

Mexican, 5 per Cent., 72\$ 3

## REMARKS ON THE OPERATIONS OF THE WEEK.

REMARKS ON THE OFERATIONS OF THE WEEK.

SATURDAY, Fun. 12.—The English finade were firm, with a shade of improvement in the quotations, but the fundeess transacted was limited; Concols for Money, \$4, and for fine Accesses, \$7 \( \) i. Such Stock, 160 \( \) i. India Stock, 244 \( \) i. and India stock, 244 \( \) in an India stock, 244 \( \) i. And India stock, 244 \( \) in an Ind

was no perticular elevation.—Rollway shares romain touch as before few transactions having taken piece, and theme at previous quotations.—Colonial Bank shares were denote at 164.

MCNEDAY.—The home stocks, upon the whole, were not quite as good to depths closing price of Cossole being, for both Monory slid the Account, 80 §, which which was mainly attributable to the extreme psectic of business.—This was setting day in the foreign market; money was picentical, and the sectionval world william the property of the state of the extreme psectic of the state of william and the section and world william and the section of these of the Producetta, which howe rather a heavy appearance.—The rallway chare mosted continues very quiet, searchy improved afterwards, with the exception of those of the Producetta, which howe rather a heavy appearance.—The rallway chare mosted continues very quiet, searchy a facciustion took place in any of the lines.—In mining shares Boisson scrip were done at \$\xi\_1\$ United Mexican norty, \$\frac{1}{2}\$.—In mining shares Boisson scrip were done at \$\xi\_1\$ United Mexican norty, \$\frac{1}{2}\$.—Contained Bank, \$\frac{1}{2}\$.

TURBUAY.—There was a slight impresented in the English otock market, prices generally had a firmer appearance, and left off at an advance on those of yester, day; \$\frac{1}{2}\$ \$\frac{1}{

the exchange is 1-22 per cent, against Engiand. But the quoted exchange it New York being live bills at sixty days' eight, the interest mean be deducted from the above difference.

WEDNESDAY.—The English funds were firm throughout the day, at previous quotablems, but beainness was very limited. The prine of Consuls, buth for Money and Account, at the close, was find; d. Enchanger Bills, 25s. 12s. pm.—The freeign securities were dull, but generally remaining without alteration in price.—The share market was steady; of the closing prices of yesteriay. Real del Monte Mining Amorteliam, energy interest, at the close the closing prices of yesteriay. Real del Monte Mining Amorteliam, more interest, at the close Maximum Mining Amorteliam, at Parliam Morteliam, and the Amorteliam, and Colombia Bank, 124; London Joint Stock Bank, 124.

THE REAL A. —The English funds had a parliam term population, i.—British North American Bank, 25, though not not be attended by the product of stocks in general may be quoted on the attender. The result of the definite on the Core Laws, though fully superiod, tended to give the market a healthy character, Cash was case at at a 3 per cond. Consents for Money and the Account closed at Rig 12; hand fitted, its 21; and Kinchuger Bills, 15s. 2h. pm.—There was some after the foreign market, in consequence of favourable intelligence from Bouth Asserties, which produced a demand for those overciles, and Culcombian was done at the long-root of 125 ap.; Maximum of her barries of 124; Ports and North Midland Counciles, 25; Contential Bank, 25; Midland Counciles, 25; Contential Bank, 25; And Midland Counciles, 25; Vorth and North Midland, 37; ex dir.—Cubre Copper Mining shares, 25;.—Cubratial Bank, 26; Midland Counciles, 26; Vorth and Money closed at hig 2; Institute the English funday, and all descriptions of stock belt off at a shade three the prices of yeatering the parket, in the work once at 10; Great Western, dir. Coher Copper Mining Asserts, 25; Colombia Bank and Colombian was decreased and de

PROMINSINY NOTES AND BULLION.—An account of the average appropriate moment of prominery notes, payable to lower on demand, which have been in reculation in the United Lingdom, distinguishing those circulated by the Rank of England, by partent beams, and by points showk banks, in England and Wates, by the banks to Sendand, by the Sank of Ireland, and by all other banks in Ireland; and of the average amount of buildines in the Sank of England, during the four reaks proceeding the 6th day of February, 1642:—Eveland. Distinct, private banks, A.S.C.S.C. J. point-showl banks, A.S.C.S.C. Bank of England, "Machine on July Sendand, and July Sendand, and July Sendand, Se

[From one correspondents.]

LATERT PRICES OF INISH STOCKS.—3 per Cast. Consols, 49—54 Stock, 504

100th Now. [200, 304—54 per Cont. Defendances, 179—Bank Stock, 779—Elegian

100th Now. [300, 304—54 per Cont. Defendance Company, 70—City of Dab.

100th Company, 16—defendances Stock, [304, 544—British and Frish Stocks Con
100, 214—Ulforestein Bank, 307—Stock, [304, 544—British and Frish Stocks Con
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100, 214—Ulforestein Bank, 100—Stocks [304, 544—Ulforestein Bank, 100]

Weakley Congress [304, 304, 304, 304]

Parket Forestein Life Control [304, 304, 304, 304]

Parket Forestein Life Control [304, 304, 304, 304, 304]

\*Wicklow Copyed Mines, 148.

Pallin, Fra. 17.—3 per Conta., 1196. 40...; 4 per Cweba., 1016. 10e..; 3 per Cweba., 1006. 10e..; 3 per Cweba., 1006. 10e..; 4 per Cweba., 1006. 10e..; 5 per Cweba., 1006. 10e..; 6 per Cweba., 1006. 10e..; 6 per Cweba., 10e..; 6 per

AMBUTERDAM, Puz. 18.—Artenal Sucie, 52 per Centes, 52 to \$1.5 per Crosts., 102 to \$1.5 per Crosts., 102 to \$1.5 per Crosts., 102 to \$1.6 to \$1.5 per Crosts., 17 to \$1. Cross across Crosspancy, 62 per Crosts., 175 to \$1. Crosspancy, 62 per Crosts., 175 to \$1.5 per Crosts., 102 p

BERLIN, Fun. S.—St. Schmid Sch., 4 per Cauda., 104 3.6 to 104; Pressian. English main, 1086, 5 per Cunta., 1004. Exchange on London, three months, 6 ply money

HAMBURGH, For. 15.— American 3 per Curde, 100 money; Bank Sharous, 1000.

Min, 1002 money; Bronchim English Louis, 1104 bills, and 1004 money; Ffre per (and. Hamburgh Cartification, 1004 bills, 1002 money; p. 3 per Curde, 124 Series incorporates, 104 bills, 1004 money; p. 400.

Land Sand Sand Sand Sand Sand Sand Co., 3 per Curde, 124 Series incorporates, 104 bills, 104 bi

LEEDS, Twosmay.—The share market during the pool work has been very inanimate, with a tendency to decline, the accessory consequency of the present agitated state of the econtry, and the encorrising of what is to be the reform in our
commercial code. North Midiands are dull at 70t., hissohester and Locds freely
offering at 4t to 5t, yes. Hull and fiellys steady at about 40t.; and Sheffield and
Sucherhean in great demand at 30t. to 35t; 1 york and North Midiands have
failine full 3t, per chare.—North Midmad Salvay, 7-t.; York and North Midiands
Salvay, 10t.; Leeds and Selvy, 74t.; Machaster, 3t.; Salvay, 10t.; Great North Midiand,
2nd.; Leeds and Selvy, 74t.; Sheffield and Selvy, 40t.; Great Mark of Salvay,
2nd.; J. Leeds and Selvy, 10t.; Leeds. Commercial, 3t.; 1 york plants, 2nd.;
Manchester and Leeds, 74t.; Sheffield and Selvy, 40t.; Great Mark of Salvay,
2nd.; J. Leeds and Selvy, 10t.; Leeds. Commercial, 3t.; 1 york plants, 2nd.;
Manchester and Leeds, 74t.; Sheffield and Selvy, 40t.; Great Sanking Comjony, 10t.; Leeds and Selvy, 10t.; Leeds. Commercial, 3t.; 1 york plants, 10t.;
Manchester and Leeds, 74t.; Leeds Commercial, 3t.; 1 york plants, 10t.;
Huddersfield, 7t.; Rochdelle, 70t.—Leeds and Yorkshire Assurance Company, 15t.—Leeds Off Gas Company, 2ft.—Leeds Commercial Sulidings, 24t.

GLASGOW, Pas. 15.—The transactions in bank shares have been to a limited extent. Glasgow Union has deciled to 8 t.; City of Glasgow to 8t. 12s.; and Clyderdale is offered at 17st. A meeting of the proprietors of the Glasgow Joint-Stock
Bank took place on the 2d inst., when, notwithstanding the presence of the times,
a photo of 1s, 10t., after derivying the expense of forming the company, was shown
to have been realized on the business of the bank for the first year. The stock has
slove been inquired for, and asies mode at 5 ms.—The shares of insurance companier remain much the same.—Meetings of the Sarviy harv been held
during the month. A large increase of traffic has been shown to have been encode
on each dur

Figure and Colleges, 40t.

BRISTOL, Parkay.—Nothing can exceed the duliness of our market; we have literally authing doing, and prices lower than my last.—Great Western Railway, 84t. to 84t., haives, 59t. to 64t. if hiths, 85t. to 9t., istinds and Kzeter, 86t. to 64t. Bristol and Gloscoster, 8t. to 54t. j. Birmingham and Gloscoster, 8t. to 63t.; Cheitenham Union, 44t. to 18tt.; Taff Vale, 65t.—Bristol Gas Company, 83t.; Clifton, 23t. to 38t.

224. to 194.
LIVERPOOL, Tuvusnav.—Grand Junction Railway, 1841. ex div.; Lancaster and Preston, 361.; Liverpool and Manchester, 1941. ex div.; North Union, 7s4. Paris and Romen, 1644.; York and North Midland, 981.—Albico Bank, 2941. (Berough, 1941. ex div.; Bank of Liverpool, 1641. ex div.; Liverpool Banking Company, 741.; Manchester and Liverpool District, 1941.; North and South Wales, 444.; Royal, 6724. ex div.; South Lancashire, 444.; Union, 1044. ex div.

MANCHESTER, Taunzpay.—Viamehouler and Birmingham Railway, 25; i. Manchester, Bolton, and Bory, 51; i. Manchester and Leeds, 75; .—Bank of Manchester and Leeds, 75; .—Bank of Manchester and Liverpool District, 1981, Manchester and Liverpool District, 1981, Manchester and Balford, 104; Bouch Lancashire, 48; . Union of Manchester, 48; .—Manchester fore and Life Assurance Company, 94; .—Union Plate Glass Company, 64.

BIRMINGHAM, Tuussaar,—London and Birmingham Railway, 1671, to 1684, Great Western, sid. to 8641, London and South-Western, 2041. to 661.; London and Brighton, 1684, to 2681, Birmingham and Durby, 271, to 561, Birmingham and Gloucester, 481, to 581.—Birmingham Blanking Counsany, 262, to 2-41, Birmingham and Midland, 314, to 281.; Birmingham and Staffordshire, 7844, to 794.

# Sampled Feb. 2, and Sold at Andrew's Hotel, Redrath, Feb. 17.

Mines.	Tons.	Price.	Purchasers.	Mines.	Tons.	Price.	Purchasers.
Tressream	130	67 B B.	. Williams.	Fowey C	. 354 4	f7 10 0.	. Virians.
ditto	162	. 7 4		ditto	354	7 20 0.	. Williams.
ditto	100 .		Viviana.	Holmbush	87	9 2 0.	Freemans.
ditto	96	à 12 0.	Freemana.	ditto	M	9 2 0.	. P. Gronfella.
ditte	79	6 12 6.	Williams.	ditto	27		Nevill & Co.
ditto	25A	4 11 6.	distant.	ditto	98	# 10 A.	Freemans.
ditto	204	4 11 0.	Freemans.	W. Gortan	4 81	7 16 0	. Nevill & Co.
ditto	214	4 11 8.	Novill & Co.	ditto	24		
DWST C.	. 43 .	4 1 4.	Freemans.	Tregolian.	. 27	4 16 6.	Viviana.
ditte		4 1 4.	Williams.	ditto	2	4 16 6.	Williams.
ditto	m	à 16	Viriant.				
		-	TOTAL P	RODUCE.			

COMPANIES BY WHOM TH	E ORES WERE	PURCHASED.
19.4	Tons.	Amount.
Vivian and Sons	2494	1448 12 6
Freeman and Co	1904	1686 4 4
Greafell and fond	10	836 14 6
Sima, Willyams, Navillo, Druce, as	nd Cu 1154	828 IS 4
Williams, Foster, and Co	6404	1748 8 4
	distance.	
Workel .	11.48	AT 100 T A

# COPPER ORES SOLD BY PRIVATE; CONTRACT.

Mines.	Tomb	Frida.	Purchasers.
South Caradon	. 142	47 10 6	Williams, Foster, and Co.
Ditto	. 79	7 16 6	11 111 ditta.
D010			er in ditte
Detter service		*****	tests dille.

# By Ticket, on the 15th of February, of Trure.

SALES OF BLACK TIN,

Mines.	Funa.	Price.	Amount	Porchasers.
Charlestown	. 10	#18 8 8		A Bolithou and Co.
dillo	. 19	30 0 C	. #24 # 1	A Williams and Co.
4000 x 11111 x		AP 18	. 288 17 1	Builthon and Co.
40700		AP 12	. MAR 17 1	Williams and Co.
40th		PR 10 0		L Bolithou and Co.
49:50	. 28	B	. 79 10 4	A Williams and Co.
dista	Morros	DR # C		Acces della
#1600	. 154	30 12 C	. 614 3 1	Bolithon and Co.
400m	184	## 12 C	. 414 3 1	Williams and Co.
- CONTRACTOR -	12	E . S	. 449 19 1	A ditte.
\$1500 E		M 10 B	200 18 4	Builthus and Co.
6000 101011111		28 10 A	. 71 8 1	ter differ
650 x101111		28 8 8		Acres 600m.
Bearing to Language !	· · · · · · · · · · · · · · · · · · ·	## 18 A.zz 44	248 8 6	A Mills
4000 000000000		40 10 K	248 0 0	Williams and Co.
#150 stressies	IZ come	# 18 C	404 19 6	L L. C. AW. Emphora
the beatier		32 8 S	ME 18 6	Bridthon and Co.
Bushler HER	Charges.	Nº 18 Sec	M78 18 7	1 4000.
	5 to 1.14	M. IR William	278 18 7	Williams and Co.
	14 cc c c c	II & Conner .	16 8 8	Bridithon and Co.
Committee or a service or an	Decision to	M. A. S	Det 2 4	L. C. AW Dwalran
Marie 1411 14	015111	M & Contract	18 18 1	Brillians and Co.
\$11146 L	2 2 1 1 1 5	# 8 Ba		. Williams and Co.
Garrigan services	0.45.445	60 52 An a	LINE LZ 6	L. C. & W. Denther
	Total lune,	DES A Married L. A.	promote & 2.	

# SALE OF COPPER ORES AT SWANSEA

Common troo, par cut 2	% R6	Fa	84	from wire sorres, each It	But	1 20	. 3
Walf imple square ditto				from wire work, per freek .			
Stort trough white chain (8		200		Board south, part 1985 17		1.3	
Service places		位徽		High bought dilities, per 1986. )		1 8	
Manage Spines Committee on the Ed.		85		Shalesk diliter you as a		1 8	
Made Stude				Mind Annual allies		8	
Minary showels		380		Linewood only, per grailing ?		1.3	
Continued from		18		Mape ditter	28	Ti	19
Changementalist, part 1400 (fire, at		40		Microfic, past flooric,	2	1 8	
Another, per the resistance &	bit	- 8	Die.	Francisco de la constante de l		1.3	
C with part toon, at years 11		85		Steer land, per cwt 14	-	line.	4
Concline, per discres lies I		- 8		Represent benedits		766	-
Pulliane, par ward,		80		M 2 allered (51275ma.)		186	
Super on the state of the same of		100		Dr. marin	50	114	
Kind repent	. 0	46.	8.	Plus fellow		1 3	A
Burney I was a second or	49		46	Maximal Millia	ž	1 6	
Wilder rears, par cert	0	54		White proceed load If		108	
White representation of the last		Big.		Rend isseed on a contrary cons 200	0	106	
Brown, write supress, court I				Month's rational invests		113	
Station, manufacture 1.5		No	40	Wind, and allert	160	-	

# LATEST CURRENT PRICES OF METAL

LUMBUM, FEE	LUNDON, FREECAST 10, 1842.							
4 4	4.4							
laon, Eng Bar for 4 6 0 to 6 15	6 Corres -Foreign (dy. 57a.)							
	Free, BritBlocks cuf & 9 6							
Hoose fon 9 0	Bars							
Sheets, fom 10 0	Bunca 0 0 0 to 3 10 0							
Pig. No. 1 fem 4 15 (	Straits 0 0 0 to 3 0 0							
Do. in Wales 4 9 6	Tin Plates-1.c. (bog) 1 10 6 to 1 12 a							
Foreign- (Sweden, on, 6d, for 13 4	1.X. do i 16 6 to 1 to 4							
Russian com fon 14 6								
Buty 20a.   P.S.L	(Others a proportion.)							
per ton. C.C.N.D. fon 18 0	Lead, Brit Pig fon 19 16 6							
STREE, Eng. Blistered, 25 0 0 to 45 0	Shoet fom 20 & 0							
Shear do, do, 45 0 0 84 0	What fee 21 15 .							
	Red /se 20 5 4							
Cast do. do. 45 0 0 ss 0 0	White (dry) fum 24 0 0							
Foreign   Swedeninkgs hd fon 19 0 0	Do. (gd.1a oil) fan 221 a 262							
Duty 20   Do. Fagguts &d. fon 20 0 0	Foreign-Span. (dy. 46s.) . 19 10 6							
per cent. Milan åd. fon 6 6	SPELTER 0 6 6to 27 10 6							
Corrac, BritCake fon 26 6 6	For delivery 6 6 6 to 37 6 .							
Tile do. 94 0 1	For delivery 0 0 0 to 27 0 Reglish Sheets 40f, to 51 0							
Sheets /å, 6 6 124	Quicustavan-(dy. Id. per Ib.) 0 4 6							

in have been soid this west by the number company, in the same hars, not.

EXPORTATION OF GOLD AND SILVER.—By the official return to the customs, the export of the precious metals from the port of Lo and colonial ports, for the week ending Tbursday last, was as under silver coun to Belglum 12,000 councer.

Calais 215,000 ...

Calais ... 215,000 ...

Silver hars to Calais ... 10,000 ...

The quantity of silver coin and builton shipped at Dover in the motor than the colonial control of the colonial control of the colonial control of the colonial control of the colonial colon

the second decision of the second			
EXPORTATION OF BRITE	SH AND PORKS	GW METALS for	m the seate
London and Linemont for the	THE PERSON NAMED IN	OH WEIGHT DO	on case boxes
London and Liverpool, for the	mounts ending Ja	nuary St. INCI:-	
	British.	Foreign.	Total.
Iron tons	10,267	200	10,557
Steel	812	104	416
Copper	11		
Do. sheets	261		361
Tin	74	79	
Do. plates, boxes	16,600		16,600
Lend tuna	408	44	854
Speiter		74	74

Quickaliver.....lbs. - ...... 207,860 .......207,860 COMPARATIVE STATEMENT OF METALS EXPORTED for

	Bo	mbay.	Ca	Jentta	Made	188.		a, Butar
	1840.	1841		1840.	lati.		1640.	1861
mickeliver hottles	916 .			1400			-	
pelter ic tons	798 .	. 265	****	2935	 780		-	
op., tough cake & tile, Br	250 .	. 110		1929	 400			
as ditto, from for, ore	44 .	. 428		1.00	 960		-	
" sheathing, Ac	782 .	. 90.7	****	1240	826		Ile.	174
on, British	Delu .	. 14525		14100			4505	
Swedish	1100			14/2				
	300			120		****		
end, British	634	Ale	****				500	1400
g Spanish				1-26	 -		144	
12 manual co control 10					 -		148	2945
n plates boxes	1468 .	2410		4800	6329	** *	273	61

MONDAY.—Price of coals per ton at the close of the market:—Bell Robans's Hartley 17 6—Buddie's West Hartley 16 6—Glof Tanfield 16—Ord's Redbeugh 16—West Hartley 19—Wylam 17 9—Wall's End Clennell 16—Rillingworth 19—Perkins 17 9—Twold's Bensham 16 6—South Killingworth 16 3—Bradeyll's Heetton 21—Haaweil 21—Hetton 21—Lambton 21—Sewart's 21 6—Whitevell 19 9—Hartleyned 21—Kellor 21 3—Tennant's Hartleyned 22—Bellardson's Tree 18 6—Blyth 15 6—Hartley 11 6—Wellwood 17—Westboortongh Park 17.—Shipa arrived, 20 4—Westboortongh Park 17.—Shillingworth 18 9—Newmarch 17 3—Westboortongh Park 17.—Shillingworth 18 9—Newmarch 17 3—Westboortongh Park 18 6—Killingworth 18 9—Newmarch 17 3—Westboortongh Park 18 6—Killingworth 18 9—Newmarch 17 3—Westboortongh Park 18 6—Killingworth 18 9—Newmarch 17 3—Northomberland 18—South Rillingworth 16—East Hetton 19—Harvell 21—Hetton, 21—Lambton 26—Stevart's 21 3—Caradoc 21 3—Brows's Deanery 28—South Durham 19 3—Blyth 19 6—Ships arrived, 31.

FRIDAY.—Adair's Main 19 3—Basida's West Hartley 18—Carr's Hartley, 19 6—Chooley Main 17 3—East Wylam 18—New Tanfield 13—Tanfield Moor 20—Wylam 17 9—Wall's End Clarke and Co. 17—Killingworth 19 9—Northomberland 19—Riddell's 19—South Killingworth 19 9—Northomberland 19—Riddell's 19—South Killingworth 19 9—Caradoc 21 3—Carado 21 3—Bowbara's Netherton Main 17 4—Ships arrived, 97.

# PRICES OF MINING SHARES

bares. BRITISH MINES. Paid. P.	vice Shares. BRITISH MINES. Paid. Price							
100 Anglesey	- 6,000 Tin Croft 64 . 26							
LOOP Risage Bridge A	14 A 500 Transit 12 of							
5,000 British from 70 . 6	lefe 1,000 Trevideia							
5,000 Binenavon 45 2	19 170 Trovishov and Barrier - 100							
130 Brewer	20 M Tresavean							
79 Budnick	120 Trethellan							
1,000 Carn Brea	10 4,900 United Hills							
2,000 Cornubian Loud Co 2	44 6,000 Wicklow Conner 12							
Low Cornwall Great United 164	1 3,645 West Wheal Jewel 9 44							
Coddra 10	1   Lies Wheel Julia - 44 1							
\$17 Cont's Kitchen	d igs Wheal Kitty							
117 Charlestown	Manager Liver							
,000 Dartmoor Conanis 4	POREIGN MINES.							
1,000 DurhamCountyCoalCo. 37	9 3,000 Alten Mining Company 124. 4							
1,400 Danescounbe	2 10.000 Augle Mexican Co. 100 A							
Little De Dunstanville	- 4.374 Do Subscription 15 1							
,000 Duffield 10 1	1 2,000 Holanos							
200 Diamond	0 Disto Serie 15 . 6 54							
"hot Rast Mulberry Hills 34	1 10,000 Brazilian Imperial 90 . 4							
256 Rast Pool	20 10,000 Bolivar 20 1							
1,000 East Tretod 1	4 10,000 Dilto Seria							
1,300 Great Wh. Prosper 74.	64   10,000 Cats Branca   Brazilian 64. 75							
(AM Great Wh. Charlotte . 3	14 10,000 Conceicon   Co. 4							
,000 Hibernian 124.	24 12:900 Cohes CopperCompany 45 128							
,000 Hoimbush 14 5	8,360 Colombian Co. regis 38 2							
,600 late of Sark (Guernsey) 11 2								
,ose Mining Co. of Ireland 7 1	14 10,000 General Mining Asso. 18 . 2							
AND Pulbreen 4.	5.551 Mexican Company 38 . 9							
1000 Polheros Crasols 18 .	A 10 000 Microsoftes and Consess 00 44							
,000 Relistian	14.549 ( Real del Monte, regin. 404 74							
200 Redmont Committees &	14,342   600 00000000000000000000000000000000							

# BAILWAY SHARE LIST AND TRAFFIC RETURNS.

1

Line.	Eintire Lgth.	Now Open.	Present so-	PL on	Val.of	Returns.
Arbroath and Forfar Railway	18	18	d 131,40	-	29	4101 10
Birmingham & Derby June.	44	2004	953,944	198	30 6	5mms 54 4
Birmingham and Gimposter	836	81	1,413,733	100	624	1,000g 1d 4
Brandling Junction	35	28	497,094	45	***	MAN 12 1
Chemier and Birkrahoud	144	148	458,864	- 60	365	250 11
Dubrin and Kingstown Duodee and Arbouth			R88,046	100	27.4	488 IS 1
Pundre and Arbovath	149	188	184,984	26		187 8 8
Employed Circus times	Times	174	1,474,174	28	2 44	444 5 1
Glasgorw and Ayr	82	20 115	609,346	-		<b>894 18 1</b>
Stangerw and Paleter Annal	1134	793	2010,000	20	36	\$79 18 6
Od. Jame. & Chesher & Craws	1134	1154	LINLAG	1000	ER1 90	EARS 14 6
dreat North of England	23	46	1,005,000	100	20	1841 DR S
Street Western	150	110	5.000.044	49	966	2041 4 4
Stall and bothy	83	31	and and	348	200	228 to 8
Lancaster & Freston June.	204	204	800,000	404	10.4	NOC 8 14
Liveryand and Manchester	80	.53	1,429,000	1000	1001	4:16 13 1
London and Birmingham	KERK	tilbe !	A. THE MET	-	120	Saus 7 1
Saw Frack bear submit.	34	34	Marc . (Marc		114 3	546 1 8
condon and Brighton	804	404	No man area			1000 18 I
Office Bloombana Branch	24	As.	1	-	m * [ ]	76
London and Crordon	104	104	347,360	1.8	100 1	206 8 8
London and Greenwick	88	88	790,800	38		200 Et 10
London and Books Western	**	22	\$.300,AM7	200	60 1	SCHOOL SE M
Muscrisonter, Builton, A Bury	38	36	77%, mak		40	DOM: 13 3
Sanchester & Rowingham			1,306,803	48		MIC OF 18
Easterhootier and Laude	**	88	E.R.W., 5400	24	734	MAN IZ #
Middlehald Circustions	57 1	10	1,410,2100	1000	ME IA	2649 2 4
Rewealds and Carthin	Trees.	100 E	F348,48000	100	90	1304 IS 4
Removable and N. Shinds		7	363,667	**	44	328 S W
furthern and Eastern?	200	166	300,053		MAG.	200 tz 8
CONTR. Minimal and your war.	294	200	3,806,607	246	28	30000 A 56
Cortis Ciscond	38	308	(MA) (MA)	79	794	mar 7 1
rentum and Wyon	254	196	274,000	846	80	- Same 7 15
beffeld and Manubouler		8		M16	-	34 2 1
THE RESIDENCE OF STREET	-		EM.246	204	-	(marget)
lork and Rights Maliand	300 L	30	495,000	30 1	4.83	LANG. LD B
* Instituting Northeats and \$	-	Section 1	ner besid.	· Boom	sand half	to Bustone
constitues belonged (SMI), put would	All Residen	all best	the returns.		The Lit	racyanii sad
Season to be desirable.	-	-	-		EM LA	